

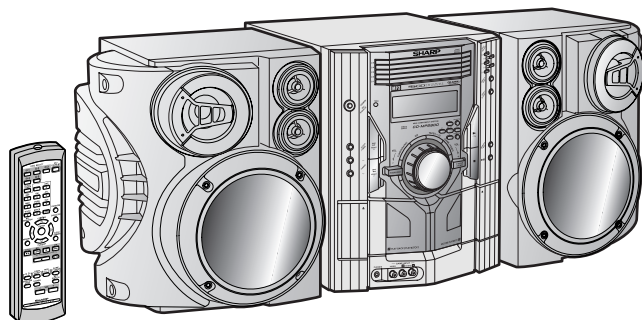
SHARP SERVICE MANUAL

No. S4414CDMPS900

MINI COMPONENT SYSTEM

MODEL CD-MPS900

CD-MPS900 Mini Component System consisting of CD-MPS900 (main unit) and CP-MPS900 (speaker system).



MINI COMPONENT SYSTEM

MODEL CD-MPS99

CD-MPS99 Mini Component System consisting of CD-MPS99 (main unit) and CP-MPS99 (speaker system).



MP3

CD-R/RW
Playable

5CD CHANGER

• In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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Parts Guide

Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

IMPORTANT SERVICE NOTES**BEFORE RETURNING THE AUDIO PRODUCT****BEFORE RETURNING THE AUDIO PRODUCT**

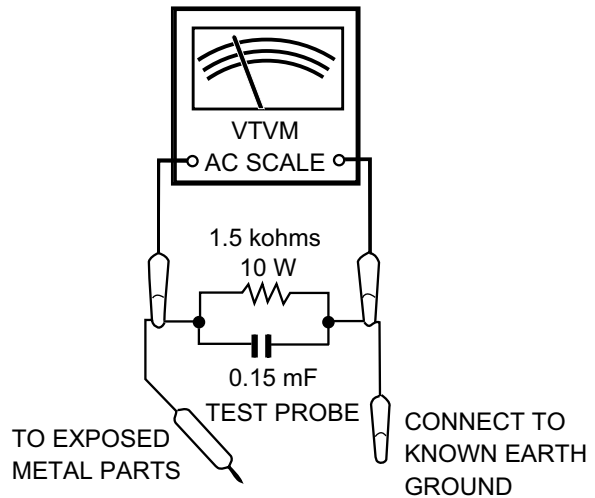
(Fire & Shock Hazard)

Before returning the audio product to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the audio product.
2. Inspect all protective devices such as insulating materials, cabinet, terminal board, adjustment and compartment covers or shields, mechanical insulators etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
 - * Plug the AC line cord directly into a 120 volt AC outlet.
 - * Using two clip leads, connect a 1.5 kohm, 10 watt resistor paralleled by a 0.15 μ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as conduit or electrical ground connected to earth ground.
 - * Use a VTVM or VOM with 1000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor (See diagram).
 - * Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All check must be repeated with the AC line cord plug connection reversed.

Any reading of 0.3 volt RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the audio product to the owner.



CHAPTER 1. GENERAL DESCRIPTION

[1] Specifications

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

CD-MPS900/CD-MPS99

■ General

| | |
|--------------------------|--|
| Power source | AC 120 V, 60 Hz |
| Power consumption | 185 W |
| Dimensions | Width: 10-1/4" (260 mm) Height: 13" (330 mm) Depth: 12-7/8" (326 mm) |
| Weight | 23.0 lbs. (10.4 kg) |

■ Amplifier

| | |
|-------------------------|--|
| Output power | 220 watts minimum RMS per channel into 6 ohms from 100 Hz to 20 kHz, 10% total harmonic distortion |
| Output terminals | Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms) Video output: 1Vp-p |
| Input terminals | Game/Auxiliary (audio signal): 500 mV/47 k ohms Game/Video: 1Vp-p |

■ CD player

| | |
|---------------------------|--|
| Type | 5-disc multi-play compact disc player |
| Signal readout | Non-contact, 3-beam semiconductor laser pickup |
| D/A converter | 1-bit D/A converter |
| Frequency response | 20 - 20,000 Hz |
| Dynamic range | 90 dB (1 kHz) |

■ Tuner

| | |
|------------------------|---|
| Frequency range | FM: 87.5 - 108.0 MHz AM: 530 - 1,720 kHz |
|------------------------|---|

■ Cassette deck

| | |
|---------------------------|--|
| Frequency response | 50 - 14,000 Hz (normal tape) |
| Signal/noise ratio | 55 dB (TAPE-1 playback) 50 dB (TAPE-2 recording/playback) |
| Wow and flutter | 0.3 % (WRMS) |

CP-MPS900/CP-MPS99

| | |
|----------------------------|---|
| Type | 3-way type speaker system with passive radiator Super tweeter x 2 2" (5 cm) tweeter x 1 6-1/2" (16 cm) woofer x 1 4" (10 cm) passive radiator |
| Maximum input power | 440 W |
| Rated input power | 220 W |
| Impedance | 6 ohms |
| Dimensions | Width: 10-7/8" (277 mm) Height: 13" (330 mm) Depth: 11" (279 mm) |
| Weight | 10.6 lbs. (4.8 kg)/each |

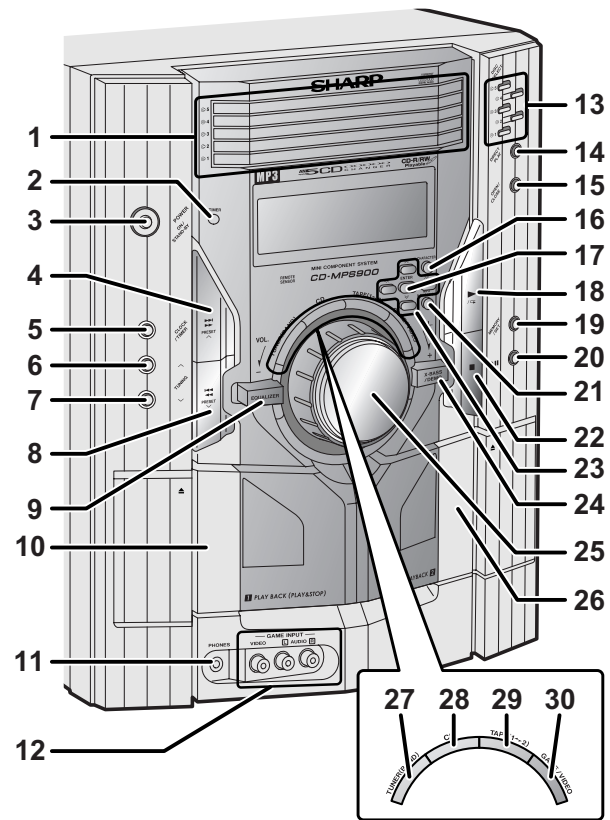
Specifications for this model are subject to change without prior notice.

[2] Names of parts

CD-MPS900/CD-MPS99

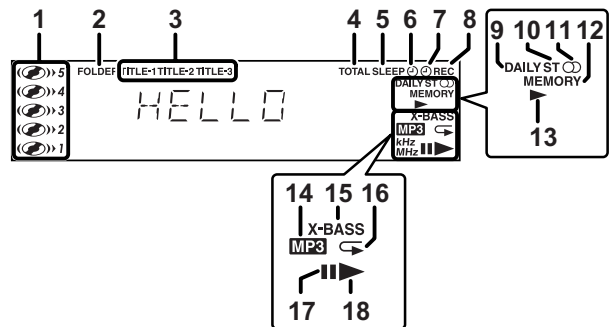
Front panel

1. Disc Trays
2. Timer Indicator
3. Power On/Stand-by Button
4. Disc Track Up or Fast Forward, Tape 2 Fast Forward, Tuner Preset Up, Time Up Button
5. Clock/Timer Button
6. Tuning Up Button
7. Tuning Down Button
8. Disc Track Down or Fast Reverse, Tape 2 Rewind, Tuner Preset Down, Time Down Button
9. Equalizer Mode Select Button
10. Tape 1 Cassette Compartment
11. Headphone Jack
12. Game/Video Input Jacks
13. Disc Number Select Buttons
14. Disc Direct Play Button
15. Disc Tray Open/Close Button
16. Character Button
17. Enter Button
18. Disc Play or Repeat, Tape Play Button
19. Memory/Set Button
20. Tape 2 Record Pause Button
21. MP3 Disc Navigation Mode Select Button
22. Disc or Tape Stop Button
23. Cursor Buttons
24. Extra Bass/Demo Mode Button
25. Volume Control
26. Tape 2 Cassette Compartment
27. Tuner (Band) Button
28. CD Button
29. Tape (1 ~ 2) Button
30. Game/Video Button



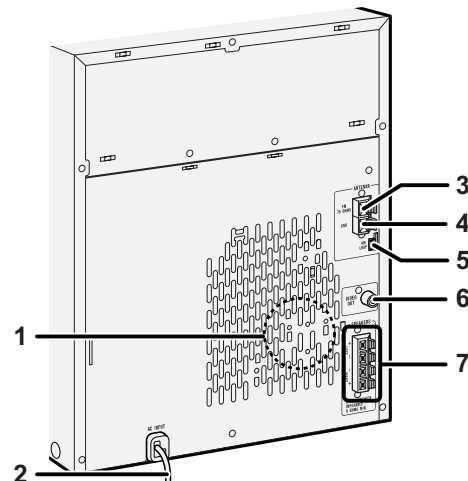
Display

1. Disc Number Indicators
2. MP3 Folder Indicator
3. MP3 Title Indicators
4. MP3 Total Indicator
5. Sleep Indicator
6. Timer Play Indicator
7. Timer Recording Indicator
8. Tape 2 Record Indicator
9. Daily Timer Indicator
10. FM Stereo Mode Indicator
11. FM Stereo Receiving Indicator
12. Memory Indicator
13. Tape Play Indicator
14. MP3 Disc Indicator
15. Extra Bass Indicator
16. Disc Repeat Play Indicator
17. Disc Pause Indicator
18. Disc Play Indicator



Rear panel

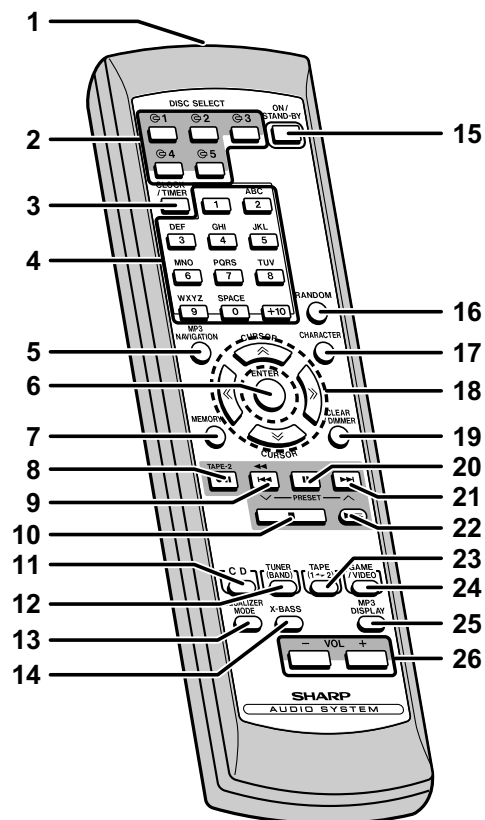
1. Cooling Fan
2. AC Power Cord
3. FM 75 Ohms Antenna Terminal
4. FM Antenna Ground Terminal
5. AM Loop Antenna Jack
6. Video Output Jack
7. Speaker Terminals



CD-MPS900/CD-MPS99

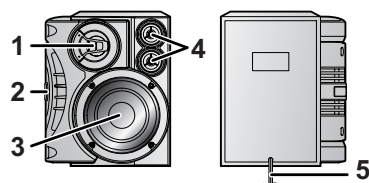
■ Remote control

1. Remote Control Transmitter
2. Disc Number Select Buttons
3. Clock/Timer Button
4. Character Input/Disc Direct Search Buttons
5. MP3 Disc Navigation Mode Select Button
6. Enter Button
7. Memory/Set Button
8. Tape 2 Record Pause Button
9. Disc Track Down or Fast Reverse, Tape 2 Rewind, Tuner Preset Down, Time Down Button
10. Disc or Tape Stop Button
11. CD Button
12. Tuner (Band) Button
13. Equalizer Mode Select Button
14. Extra Bass Button
15. Power On/Stand-by Button
16. Disc Random Button
17. Character Button
18. Cursor Buttons
19. Disc Clear/Dimmer Button
20. Disc Pause Button
21. Disc Track Up or Fast Forward, Tape 2 Fast Forward, Tuner Preset Up, Time Up Button
22. Disc Play or Repeat, Tape Play Button
23. Tape (1 ~ 2) Button
24. Game/Video Button
25. MP3 Disc Display Button
26. Volume Up and Down Buttons



CP-MPS900/CP-MPS99

1. Tweeter
2. Passive Radiator
3. Woofer
4. Super Tweeters
5. Speaker Wire



CHAPTER 2. ADJUSTMENTS

[1] Mechanism section

- Driving Force Check

| Torque Meter | Specified Value |
|---------------|--|
| Play: TW-2111 | Tape 1: Over 80 g Tape 2: Over 80 g |

- Torque Check

| Torque Meter | Specified Value | |
|-----------------------|-----------------|----------------|
| | Tape 1 | Tape 2 |
| Play: TW-2111 | 30 to 80 g.cm | 30 to 80 g.cm |
| Fast forward: TW-2231 | — | 70 to 180 g.cm |
| | — | 70 to 180 g.cm |

- Tape Speed

| | Test Tape | Adjusting Point | Specified Value | Instrument Connection |
|--------------|-----------|-----------------------------|-----------------|--|
| Normal speed | MTT-111 | Variable Resistor in motor. | 3,000 ± 30 Hz | Speaker Terminal (Load resistance: 6 ohms) |

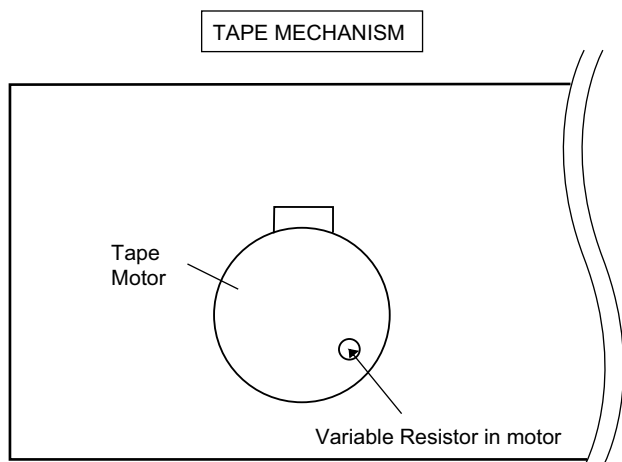


Figure 1

[2] Tuner section

fL: Low-range frequency

fH: High-range frequency

- AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

| Test Stage | Frequency | Frequency Display | Setting/Adjusting Parts | Instrument Connection |
|------------------|-----------|-------------------|---------------------------|-----------------------|
| AM IF | 450 kHz | 1,720 kHz | T351 | *1 |
| AM Band Coverage | — | 530 kHz | (fL): T306 1.1 ± 0.1 V | *2 |
| AM Tracking | 990 kHz | 990 kHz | (fL): T303 | *1 |

*1. Input: Antenna Output: TP302

*2. Input: Antenna Output: TP301

- FM RF

Signal generator: 1 kHz, 40 kHz dev., FM modulated

| Test Stage | Frequency | Frequency Display | Setting/Adjusting Point | Instrument Connection |
|------------------|-------------------------|-------------------|-----------------------------|-----------------------|
| FM Band Coverage | — | 87.50 MHz | T301 (fL): 1.3 V ± 0.1 V | *1 |
| FM RF | 98.00 MHz (10-30 dB) | 98.00 MHz | L312 | *2 |

*1. Input: Antenna Output: TP301

*2. Input: Antenna Output: Speaker terminal

- FM IF

Signal generator: 10.7 MHz, FM modulated

| Test Stage | Frequency | Frequency Display | Setting/Adjusting Point | Instrument Connection |
|------------|-----------|-------------------|--|-----------------------|
| IF | 10.7 MHz | 98 MHz | T302 (Turn the core of transformer T302 fully counter clockwise) | *1 |

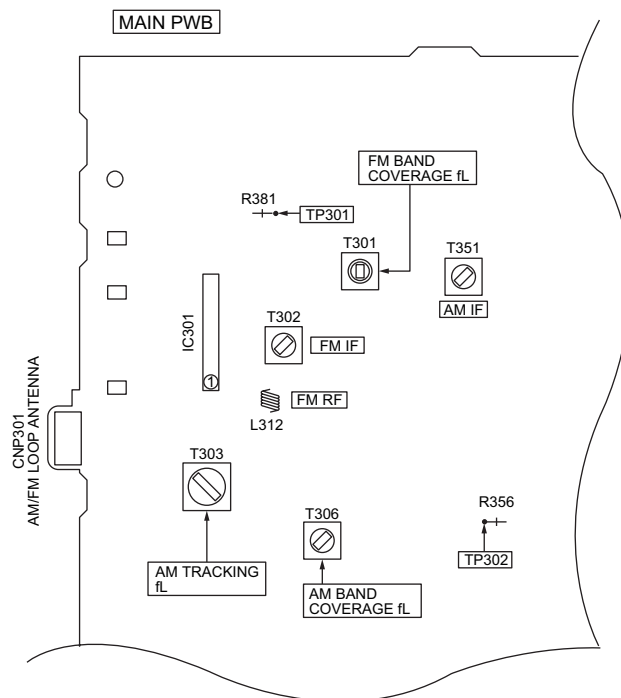

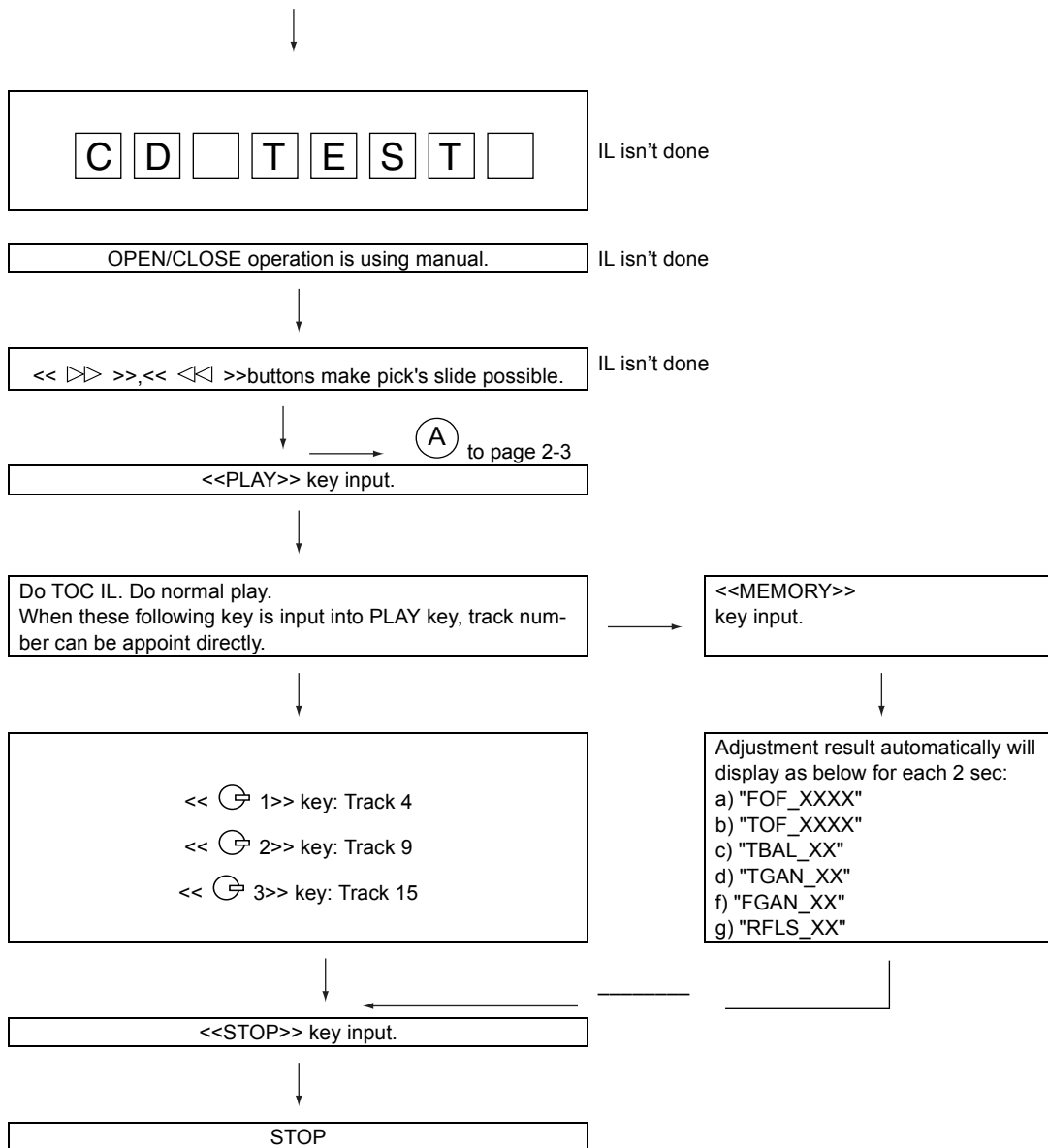


Figure 2 Adjustment Points

[3] TEST MODE

• Setting the test mode

During stand-by mode, press ON/STAND-BY button while pressing down the  button and X-BASS/DEMO button. then, press the CD button to enter the test mode.



explanation:

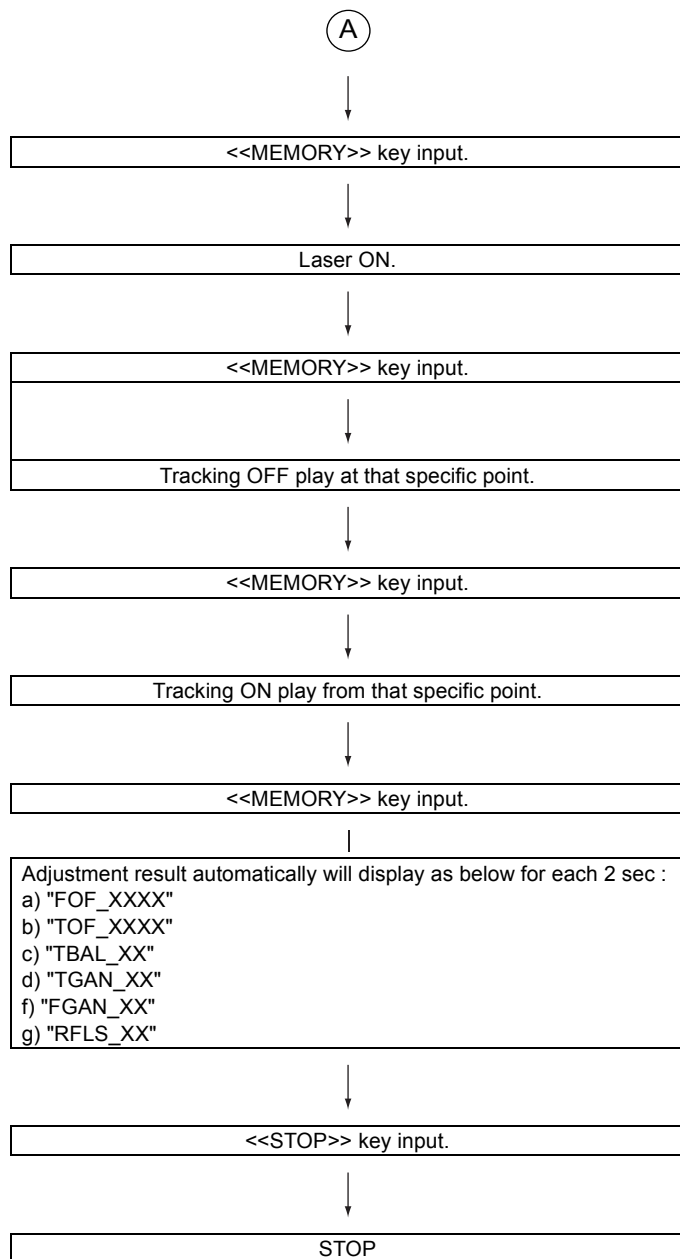
- | | |
|---------------------|--------------|
| a) Focus off set | = "FOF_XXXX" |
| b) Tracking off set | = "TOF_XXXX" |
| c) Tracking balance | = "TBAL_XX" |
| d) Tracking Gain | = "TGAN_XX" |
| f) Focus Gain | = "FGAN_XX" |
| g) RF level shift | = "RFLS_XX" |

VOL — Last memory

P.GEQ — FLAT

X-BASS — OFF

To cancel : Power OFF



Sliding the PICKUP with<< ▷▷ >>, << ◁◁ >> button must only be in STOP mode.

explanation:

- | | |
|---------------------|--------------|
| a) Focus off set | = "FOF_XXXX" |
| b) Tracking off set | = "TOF_XXXX" |
| c) Tracking balance | = "TBAL_XX" |
| d) Tracking Gain | = "TGAN_XX" |
| f) Focus Gain | = "FGAN_XX" |
| g) RF level shift | = "RFLS_XX" |

VOL — Last memory

P.GEQ — FLAT

X-BASS — OFF

To cancel : Power OFF

[4] CD section

CD Error code description

| Error | Explanation |
|-------|--|
| 01 | When Pickup set inner position, inner switch cannot detect 'ON' level for 10 secs. |
| 10* | CAM error. Can't detect CAM switch when CAM is moving. |
| 11* | When it detect cam operation error during initialize process. |
| 20* | TRAY error. Can't detect TRAY switch when TRAY is moving. |
| 21* | When it detect TRAY operation error during initialize process. |
| 31 | When it change to CD function, DSP cannot read initial data. |

* 'CHECKING'

If Error is detected, 'CHECKING' will be displayed instead of 'ER-CD***'. 'ER-CD***' display will only be displayed when error had been detected for the 5th times.

Standard Specification of Stereo System Error Message Display Contents

| Error Contents | Display | Notes |
|----------------|-------------------------------|----------------------------|
| CD | Pickup Mechanism Error. | 'ER-CD01' |
| | CD Changer Mechanism Error. | 'ER-CD***' (*) |
| | CD DSP Communication Error. | 'ER-CD31' |
| | Focus Not Match/IL Time Over. | 'NO DISC' |
| TUNER | PLL Unlock. | FM 87.5 MHz PLL Unlock. |

(*) CHECKING:

If CD changer mechanism error is detected, 'CHECKING' will be display instead of 'ER-CD***'. 'ER-CD***' display will only be display when error had been detected for the 5 th times.

Speaker abnormal detection and +B PROTECTION display

In case speaker abnormal detection or +B PROTECTION had occurred, it can be check by pressing 'POWER', '■' and 'X-BASS' button. MicroComputer version number will displayed as "XM*****".

Press 'VIDEO/AUX' button during version number display and then press 'POWER', 'MEMORY/SET' and 'VIDEO/AUX' button. Display will show "S** B***". S is referring to speaker abnormal detection and B is referring to +B PROTECTION. ** is in hex valve.

+B PROTECTION is condition when irregular process occur on power supply line.

BEFORE TRANSPORTING THE UNIT

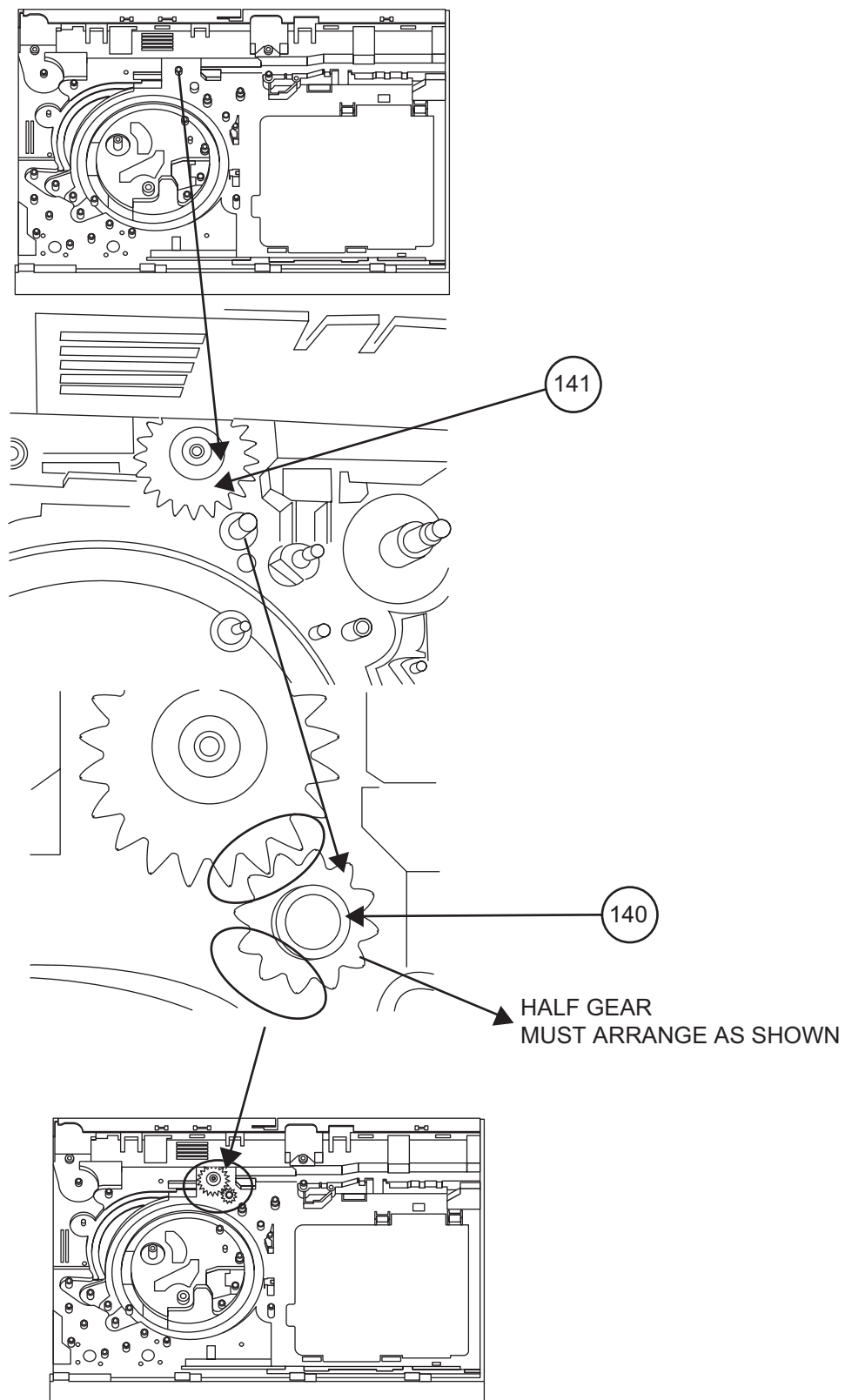
The following process need to be taken after set tapering/parts replacement.

1. Press the ON/STAND-BY button to enter stand-by mode.
2. While pressing down the ■ button and the X-BASS/DEMO button, press the ON/STAND-BY button. The Micro Computer version number will be displayed as "XM*****".
3. Press OPEN/CLOSE button until "WAIT"→ "FINISHED" appears.
4. Unplug the AC cord and the unit is ready for transporting.

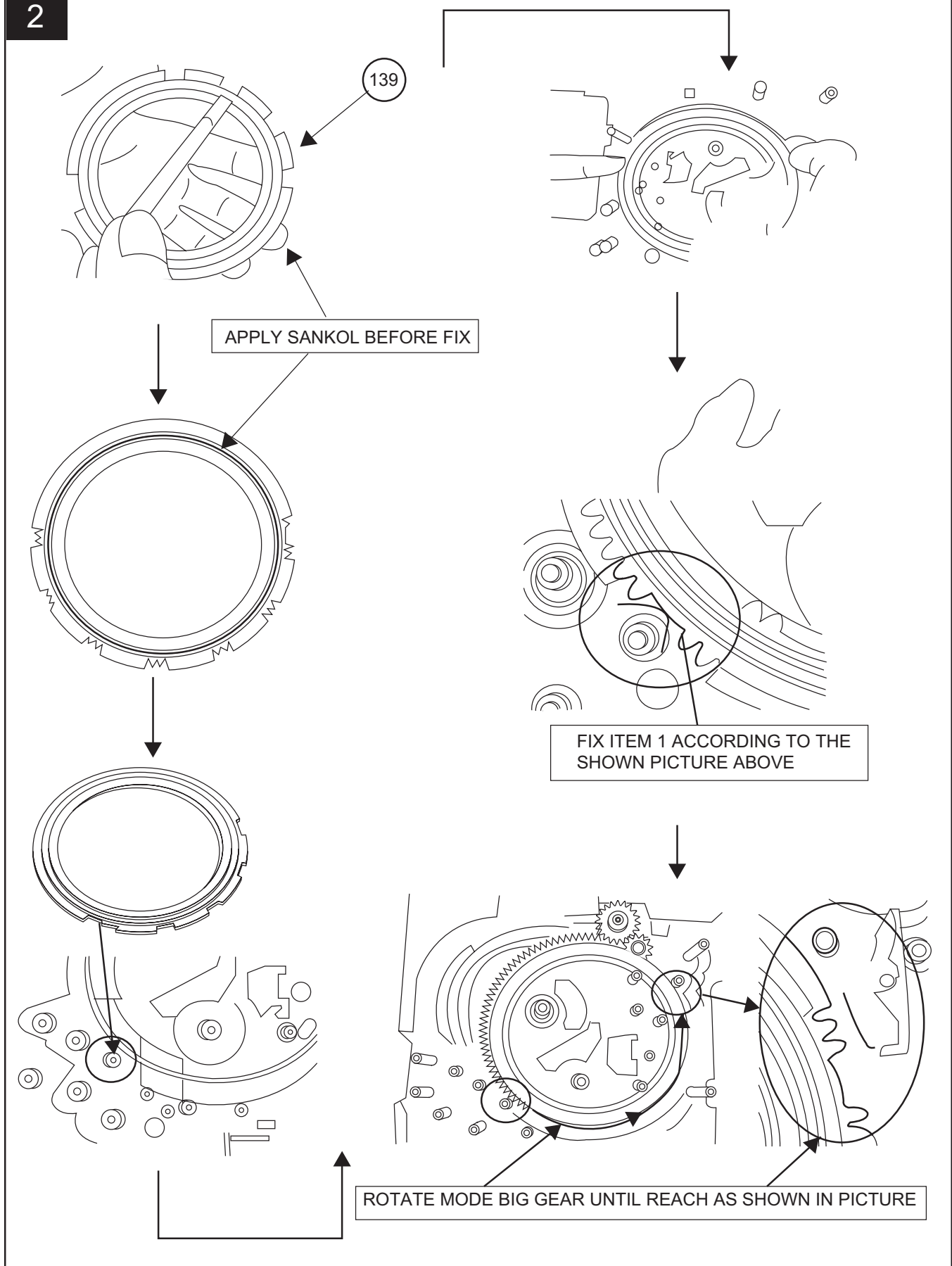
[5] CD Changer mechanism section

- A number in the drawing sheet is the number of the parts guide (CHANGER MECHANISM PARTS).

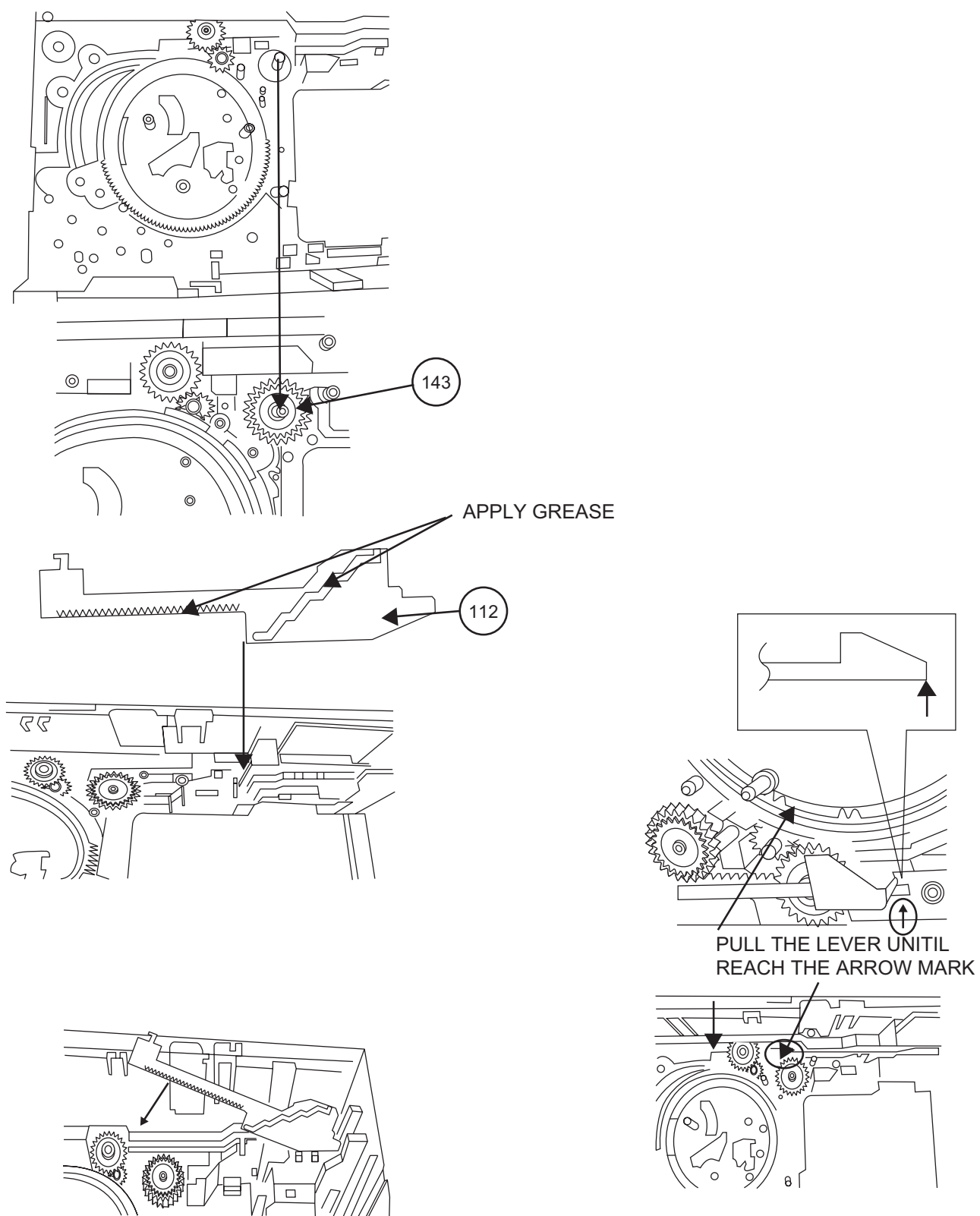
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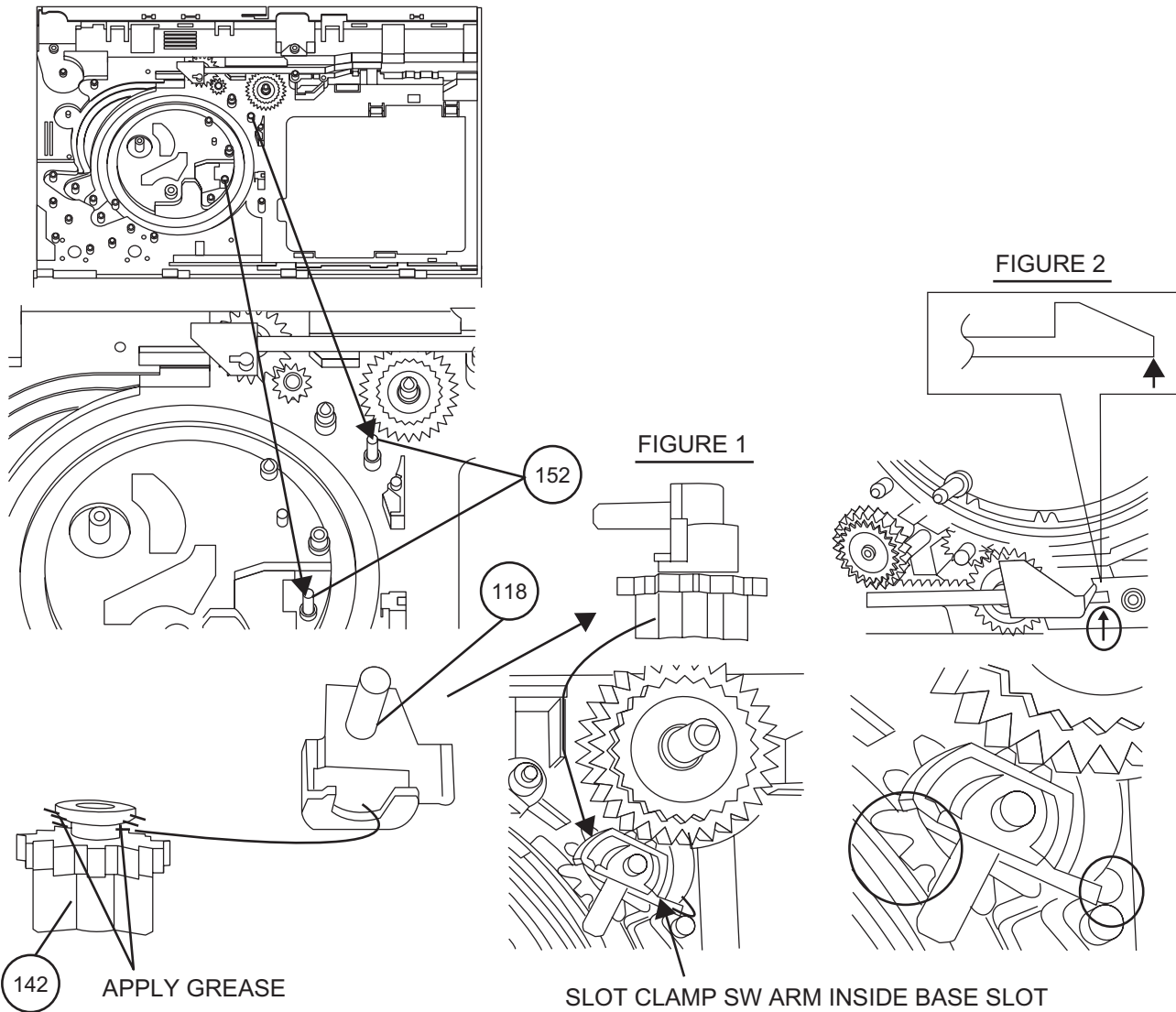
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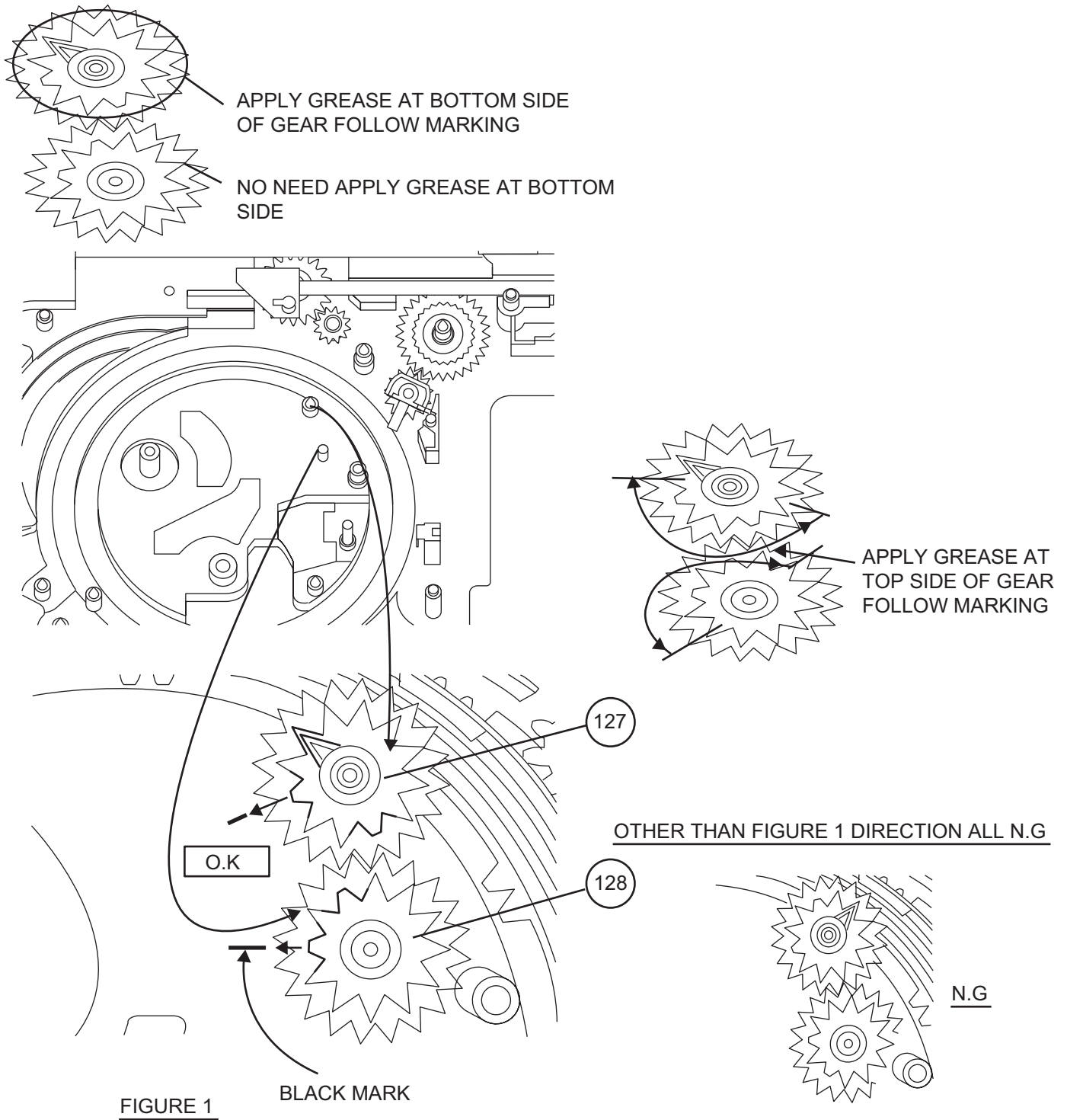
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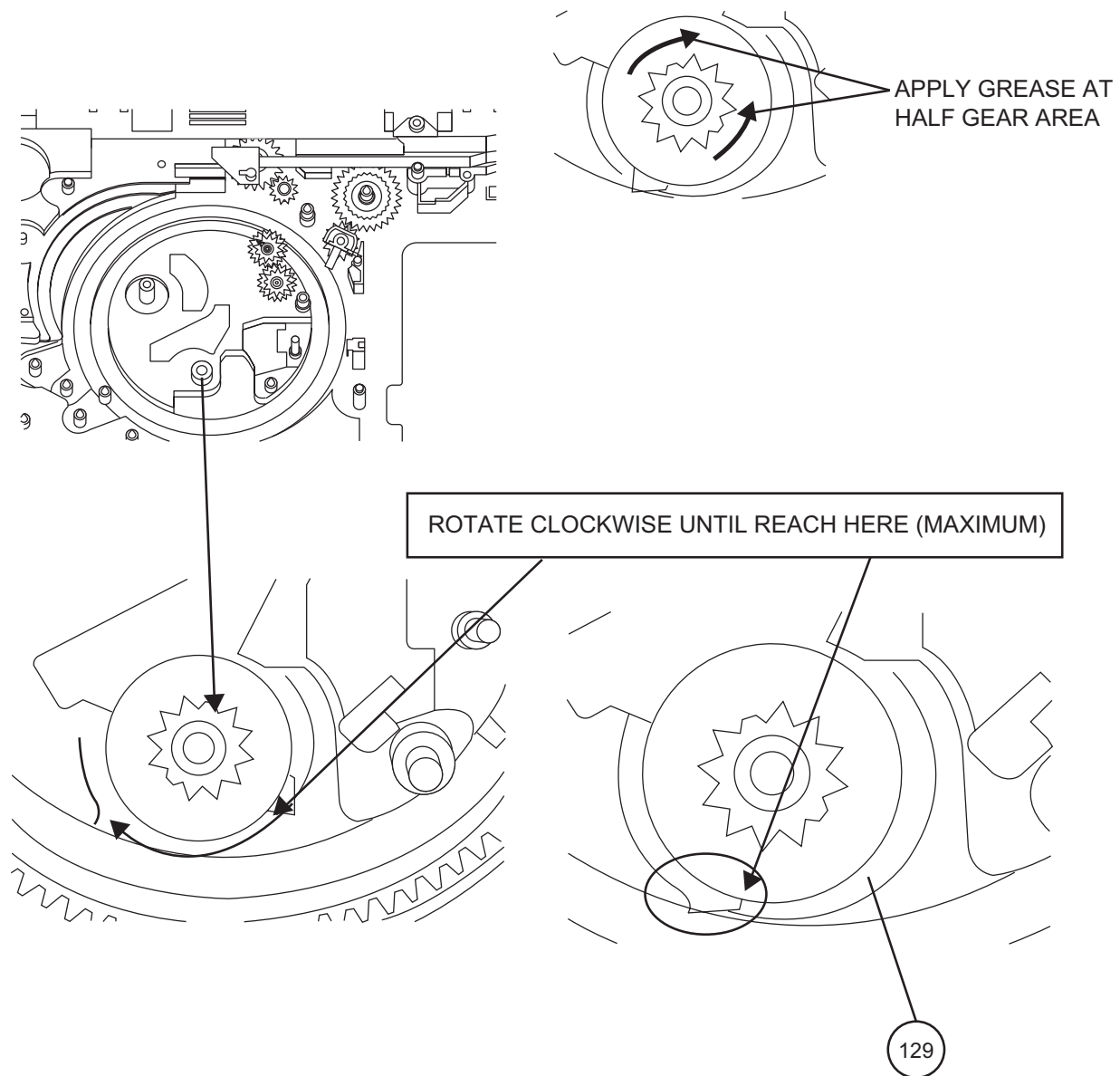
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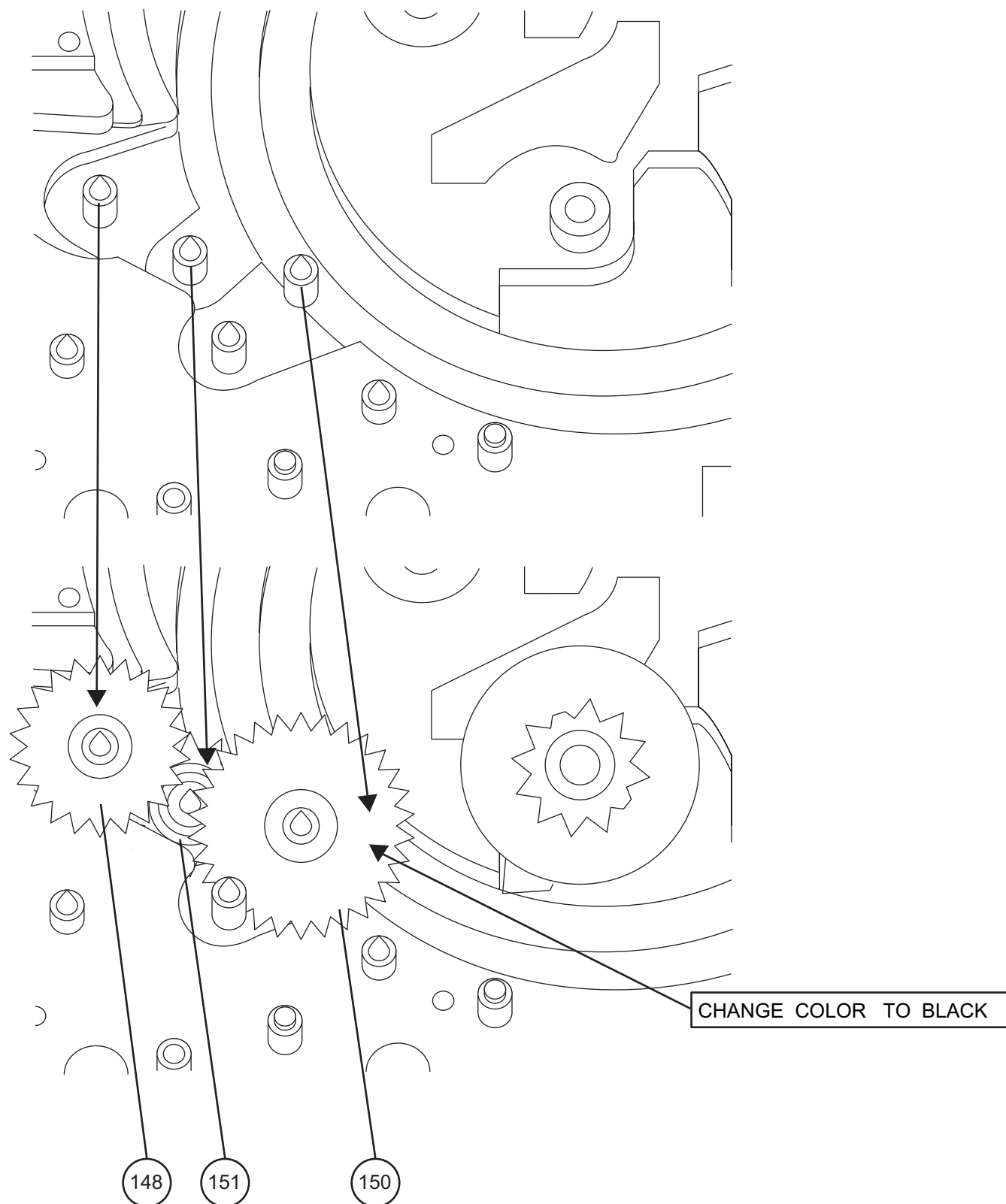


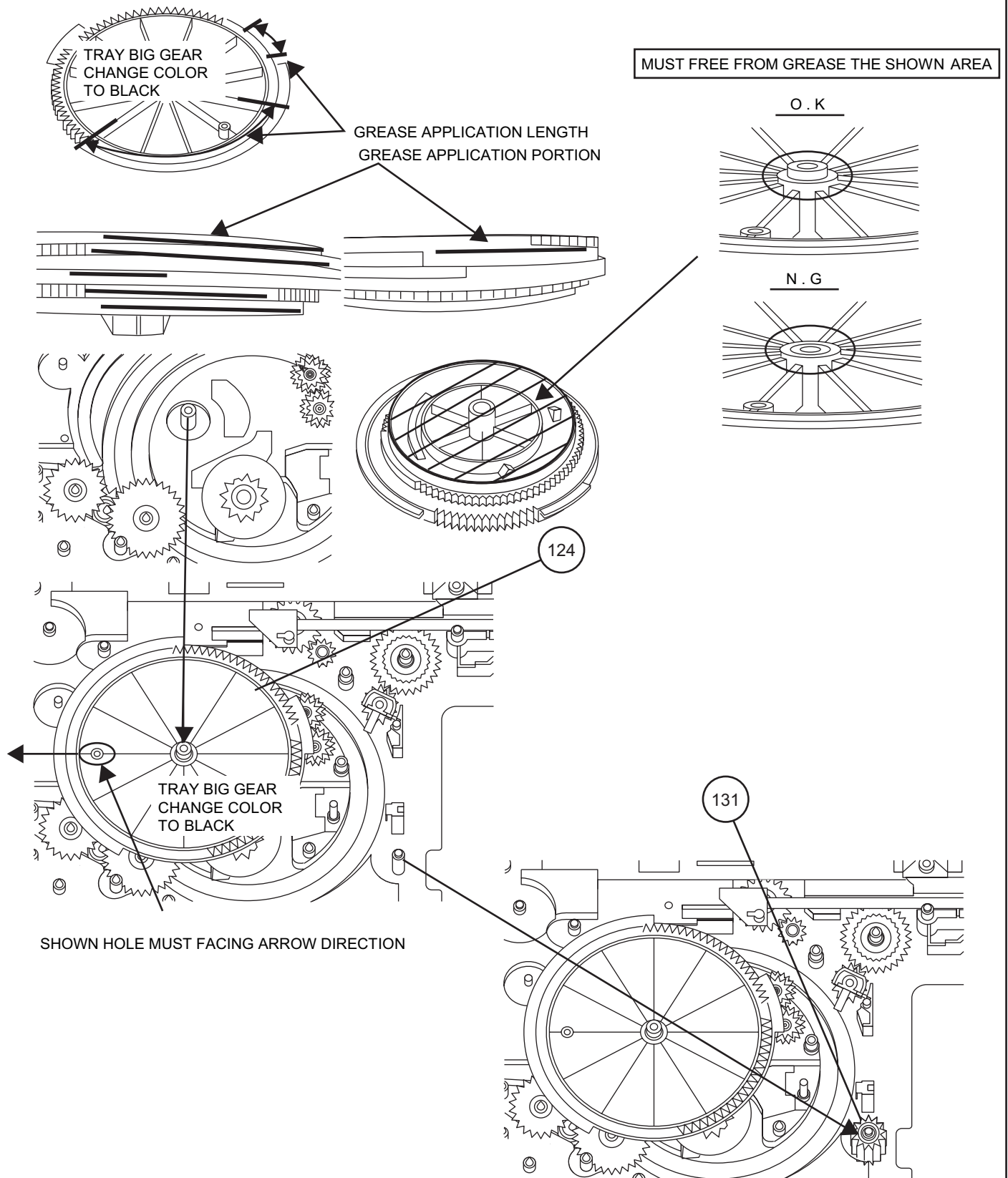
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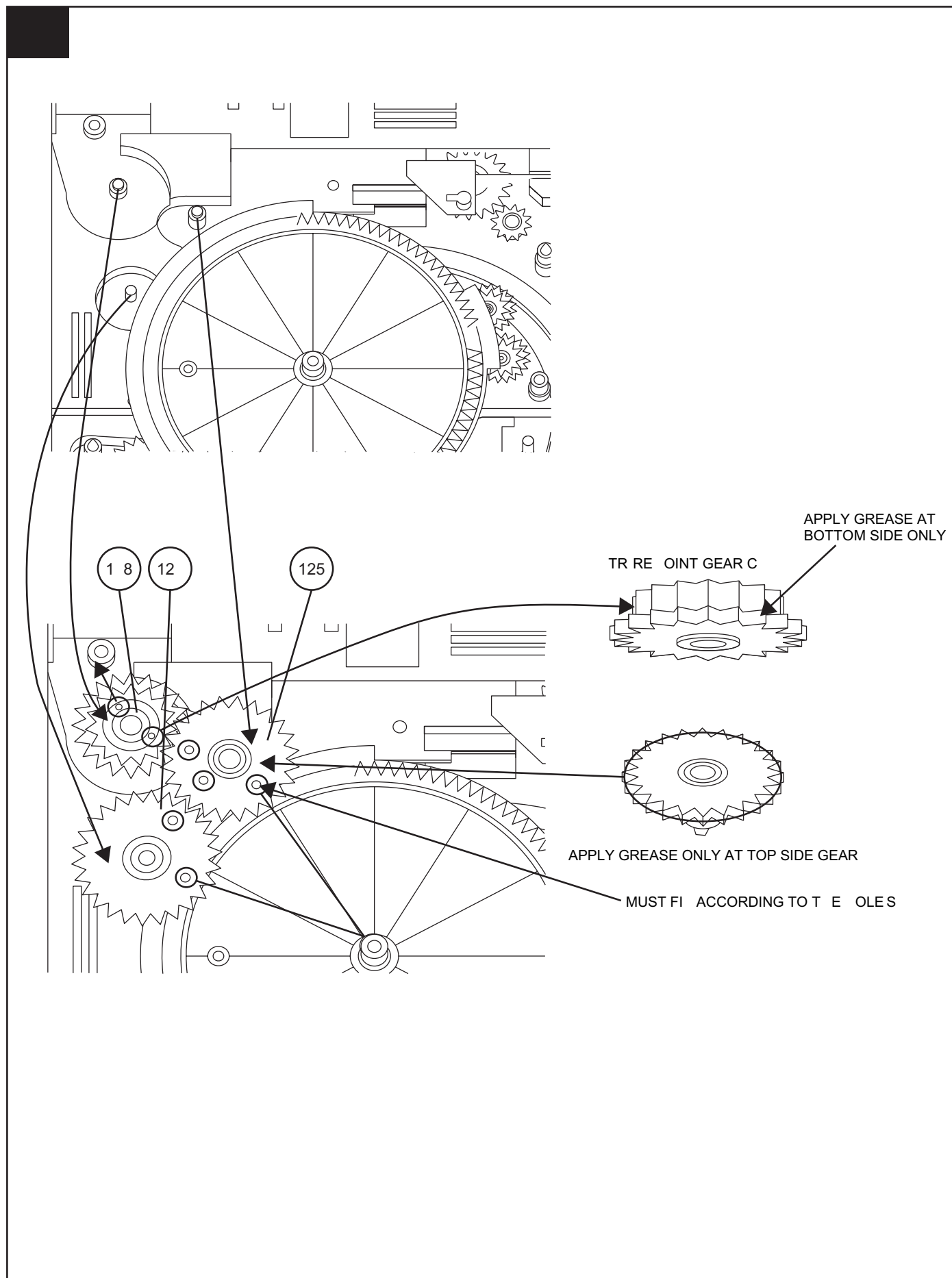


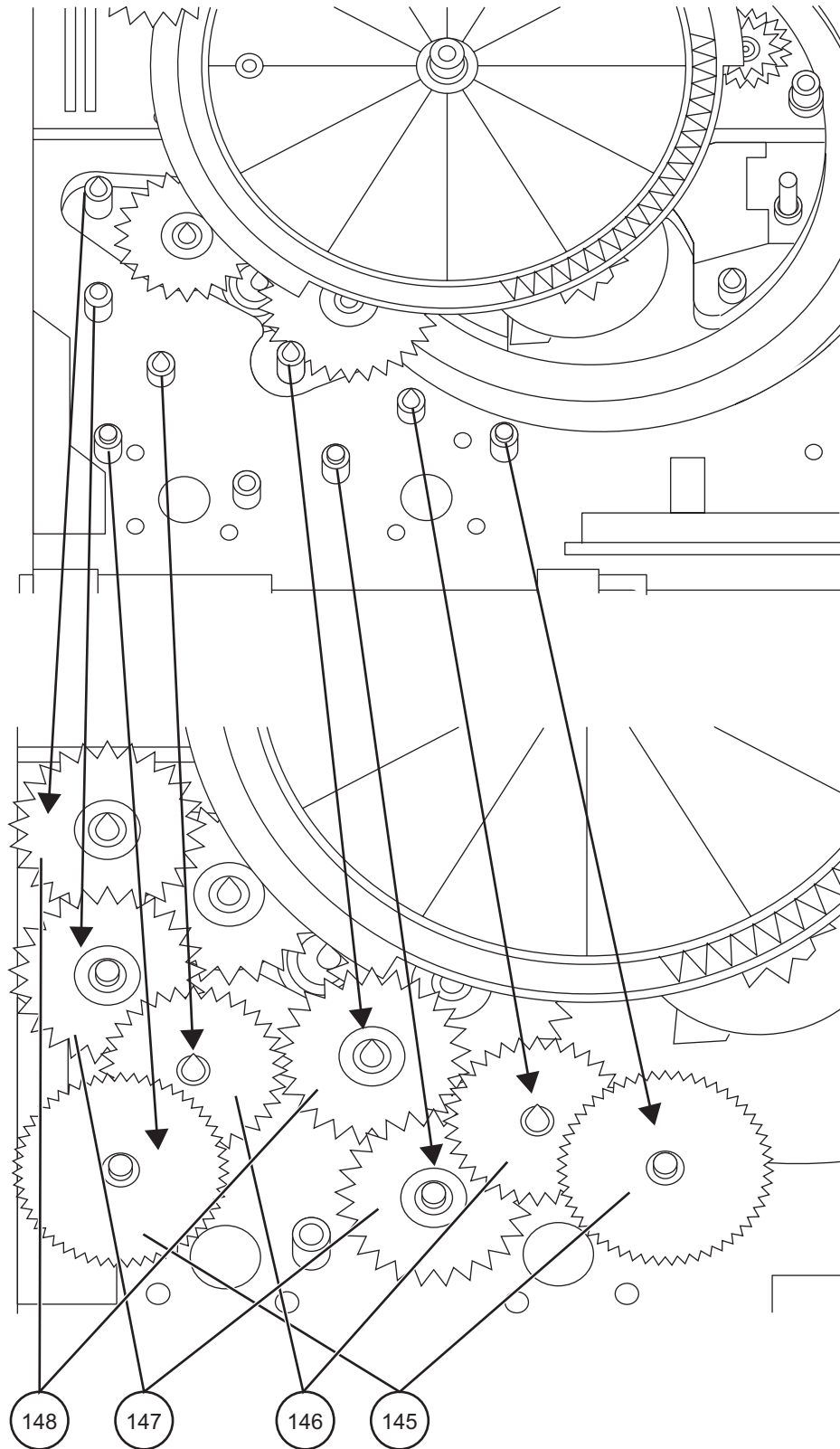
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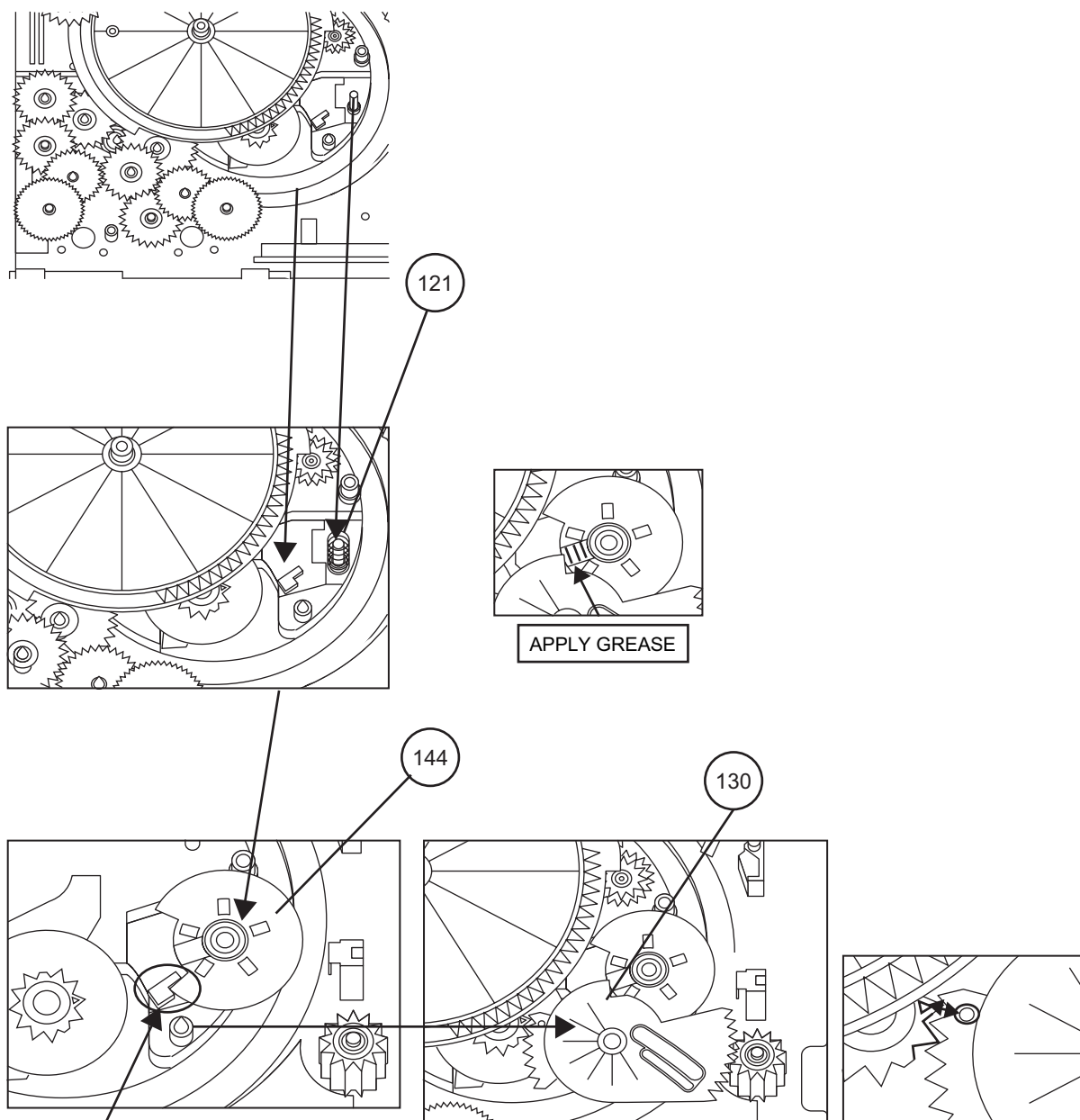




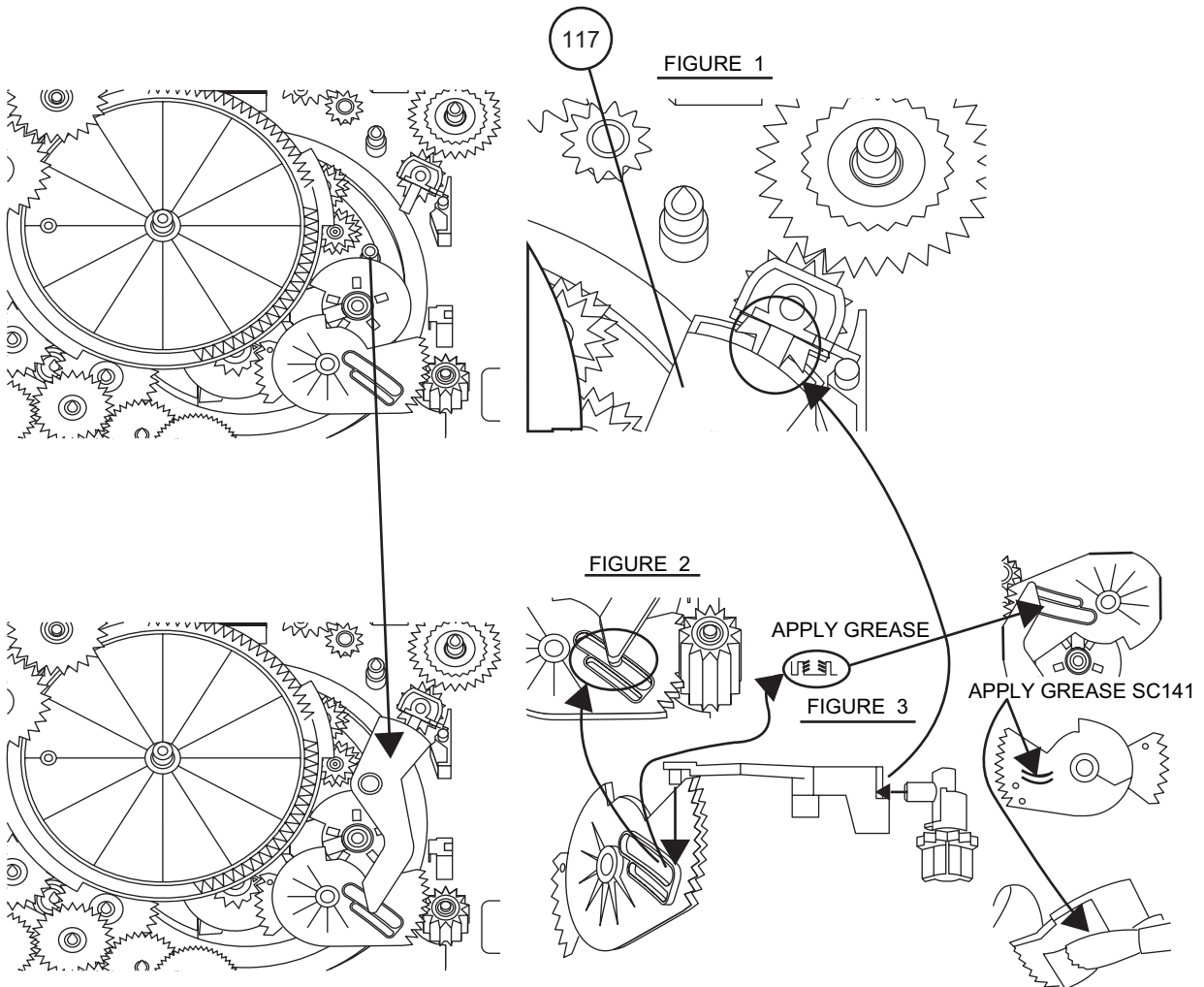


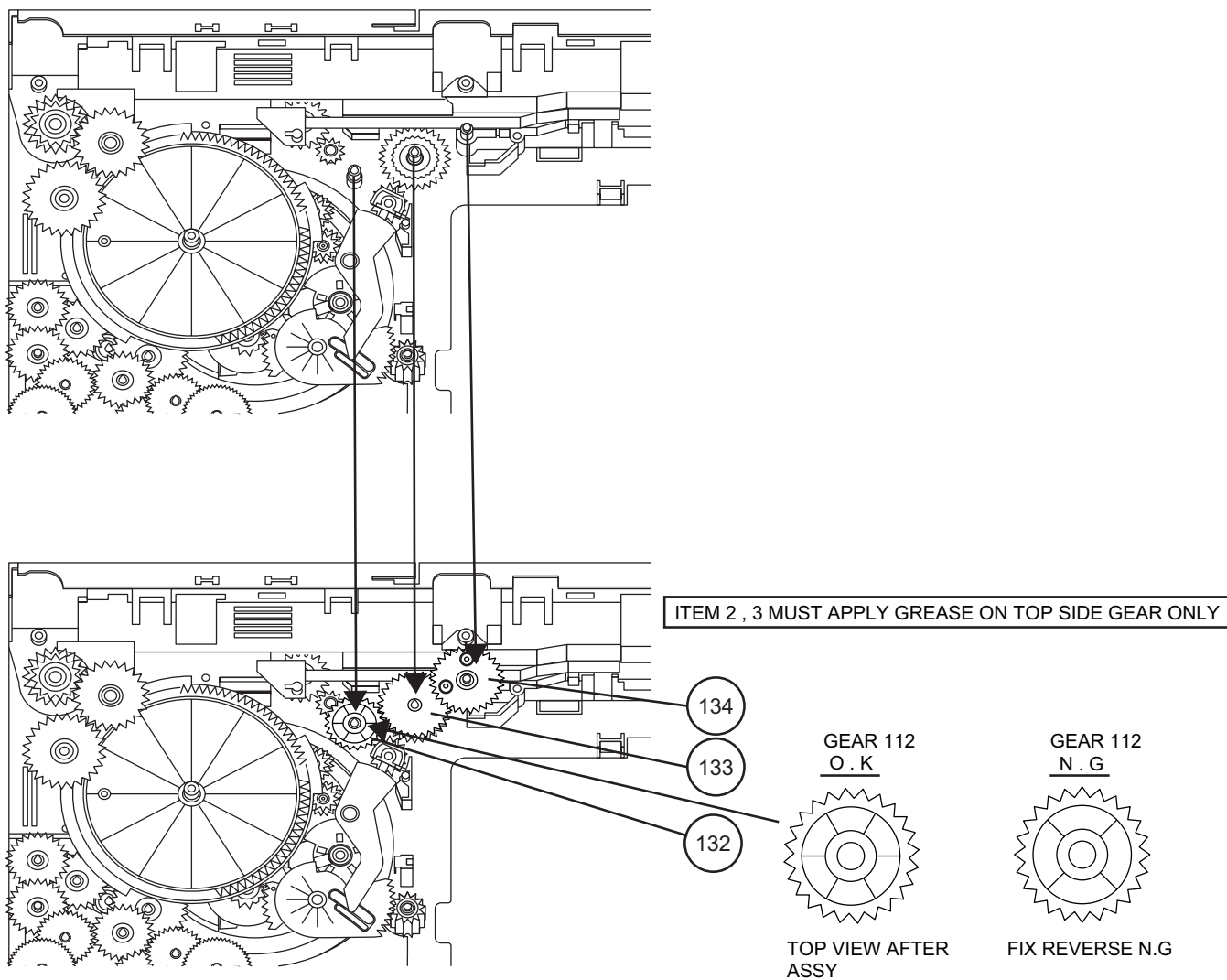


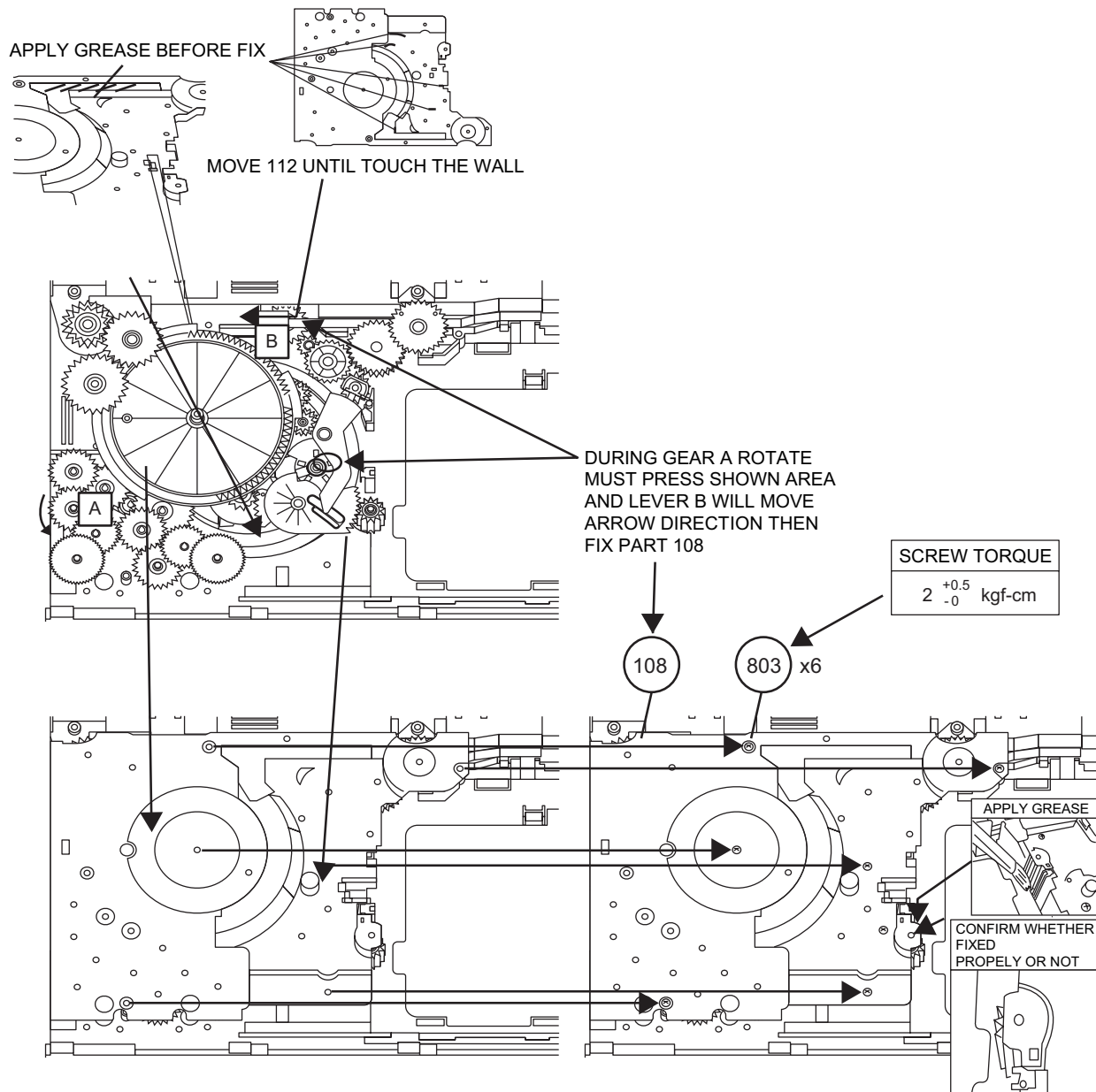


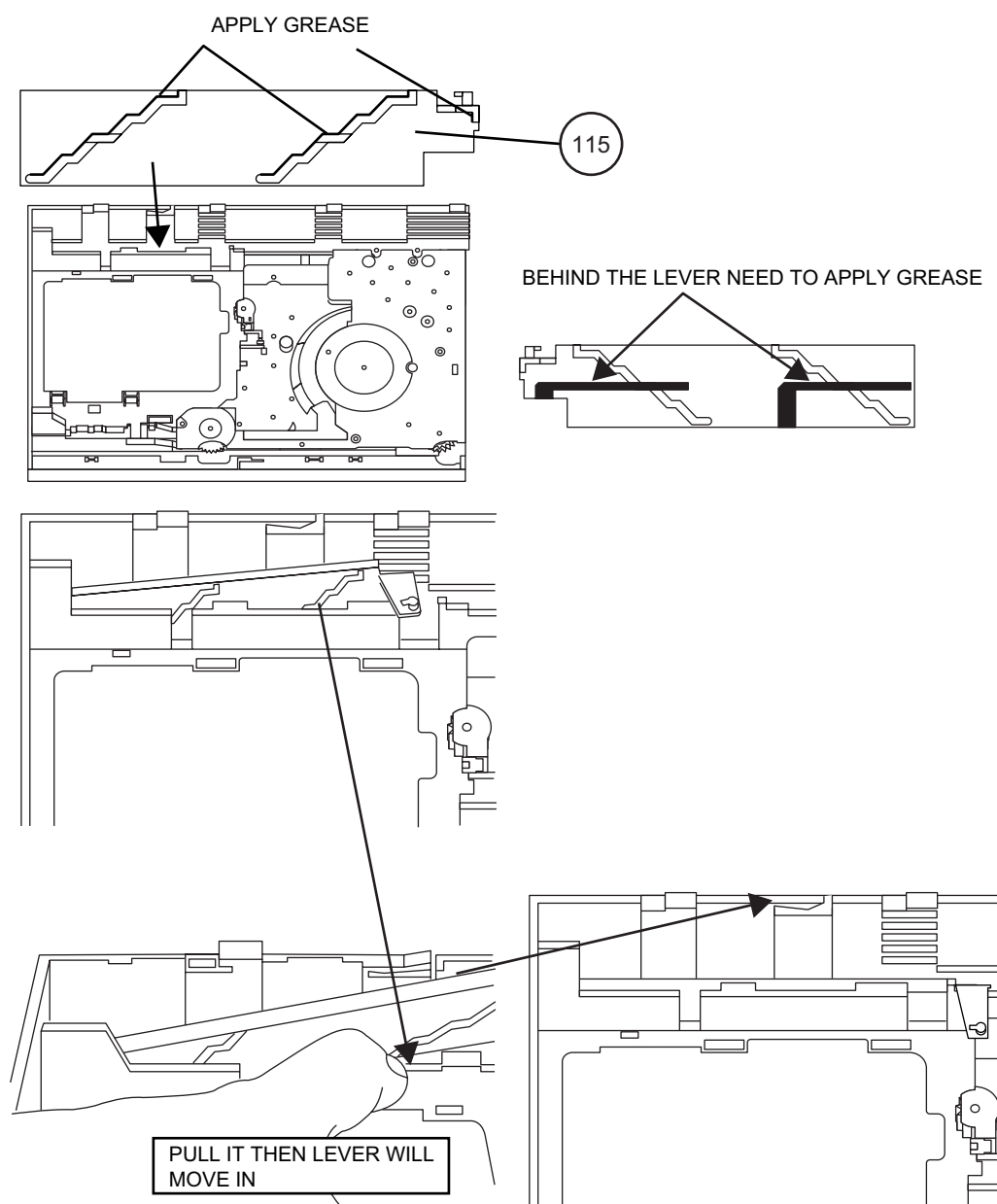


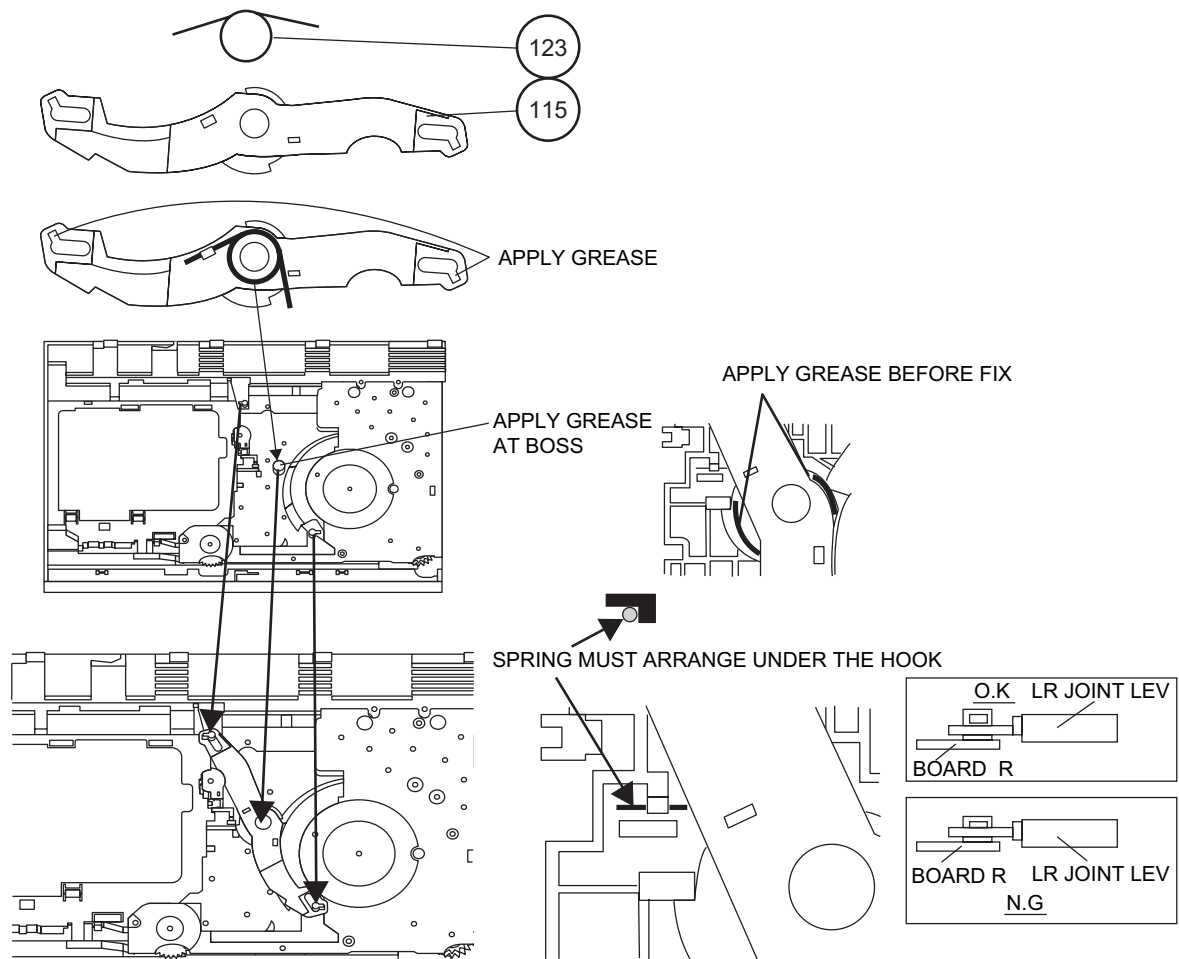
WHEN FIXING ITEM 2 MUST FOLLOW AS SHOWN

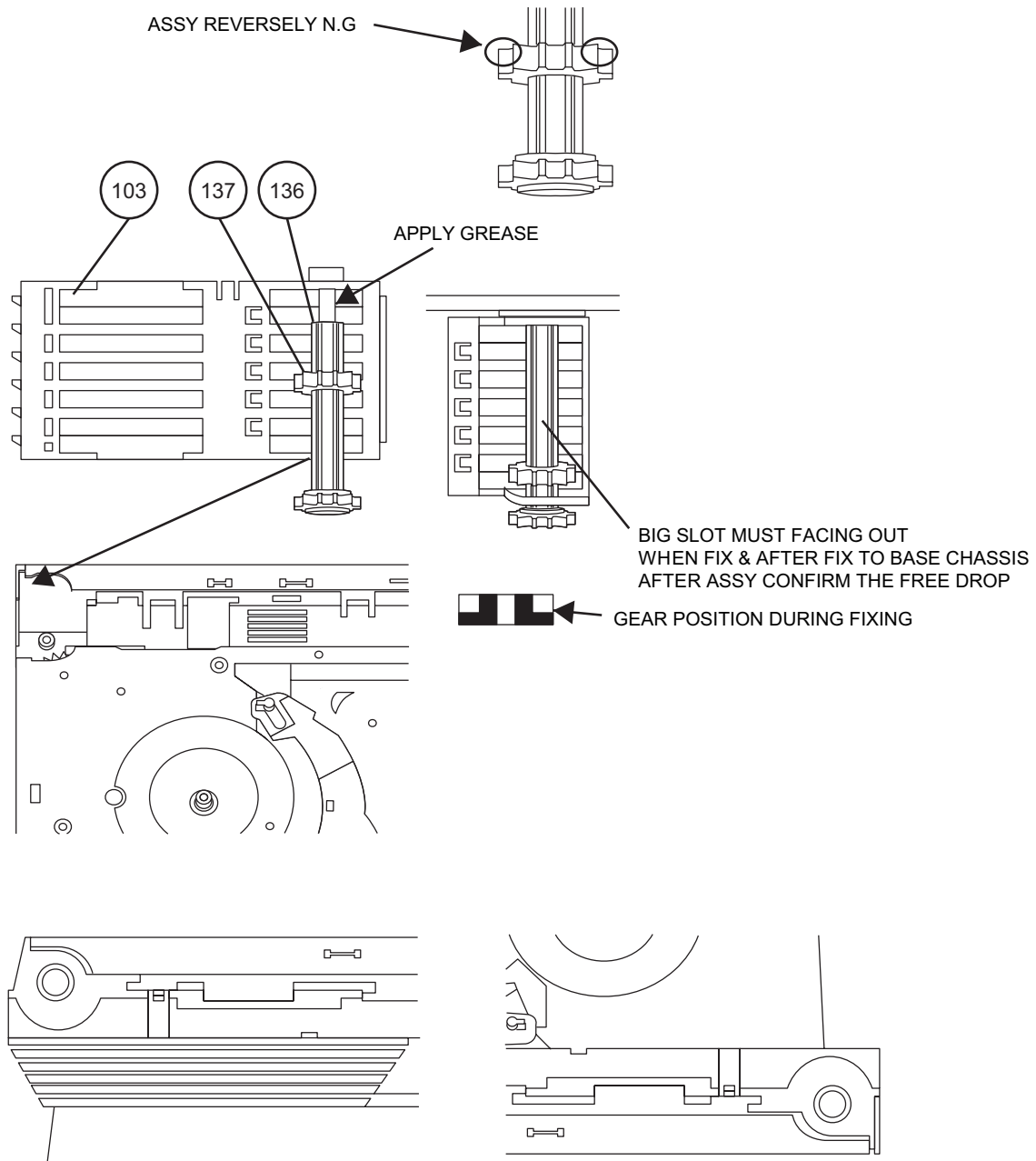


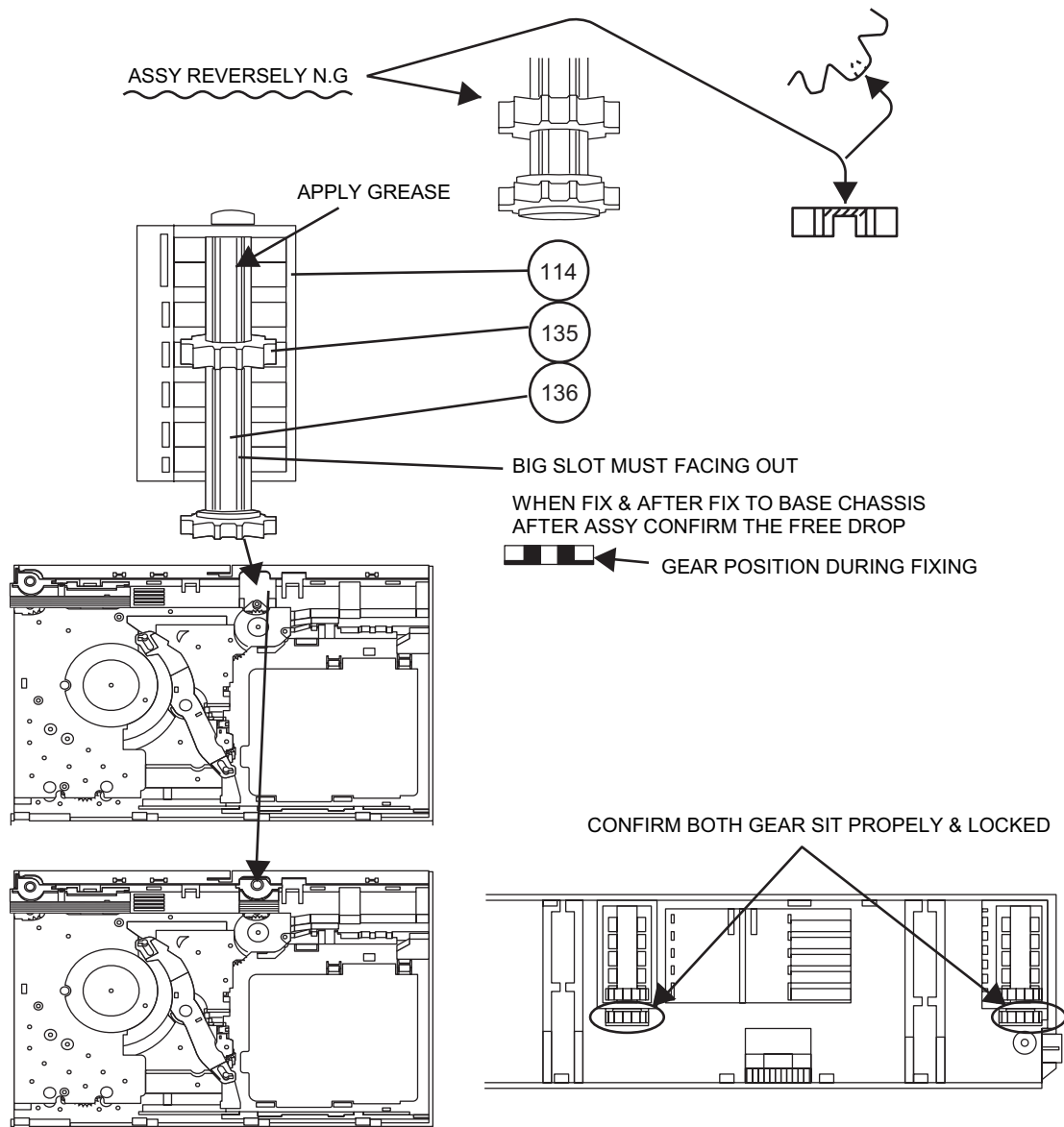


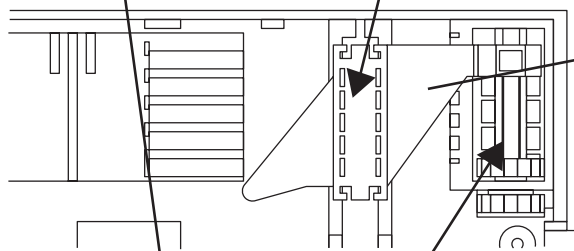
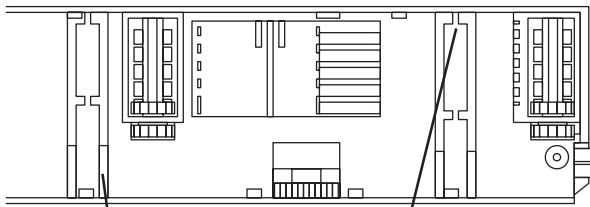








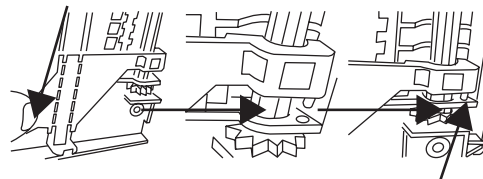




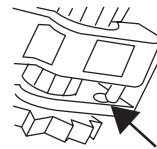
BIGGER SLOT FACING OUT

AFTER FIX OUTER UP/DOWN LEVER HOLD SHOWN PORTION AND
MOVE UP/DOWN THEN CONFIRM LEVER GO INSIDE THE HOLE OR NOT

120



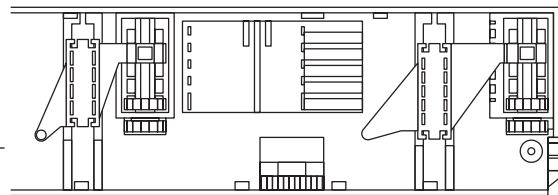
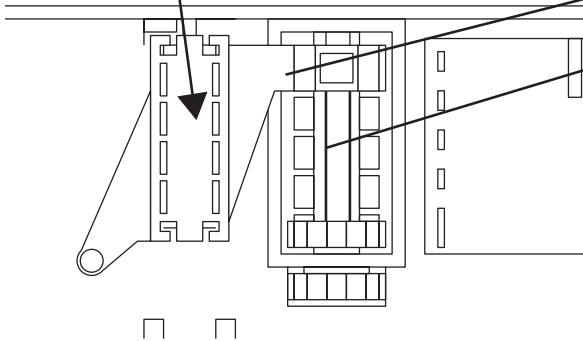
IF GO INSIDE HOLE
IS O.K

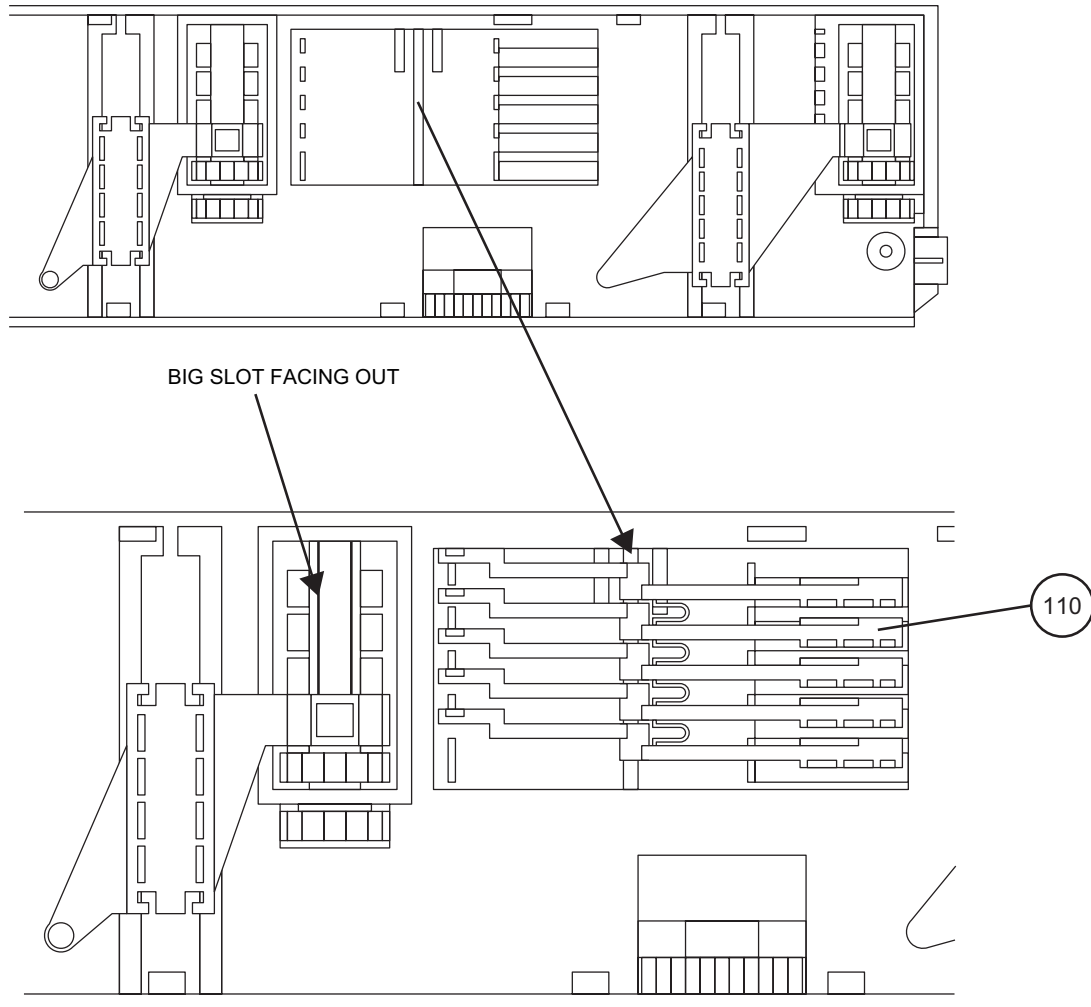


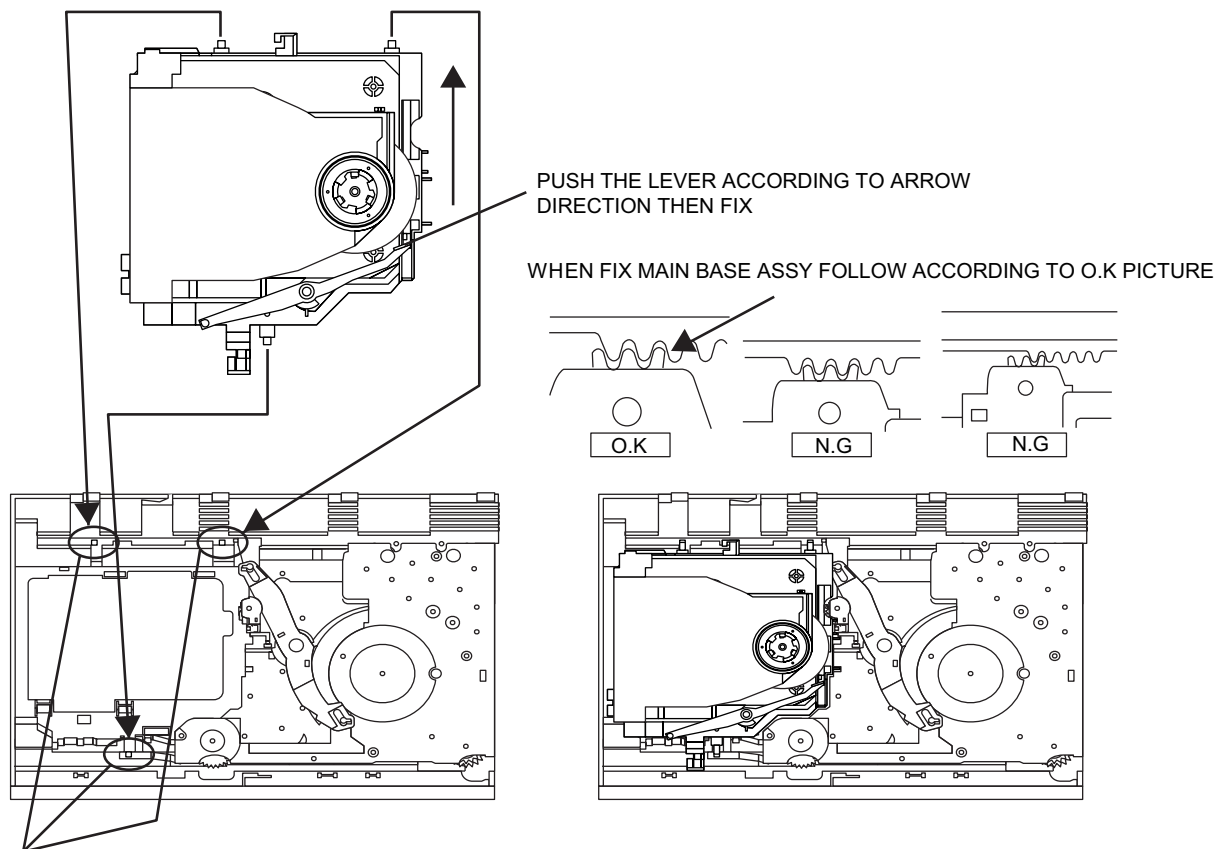
IF NO GO INSIDE HOLE IS N.G

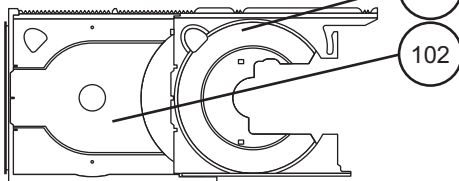
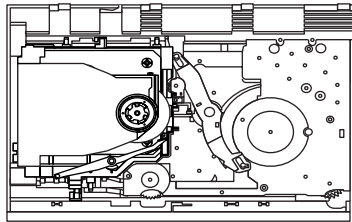
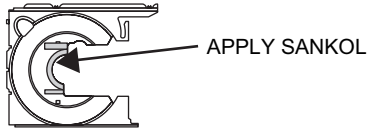
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BIGGER SLOT FACING OUT



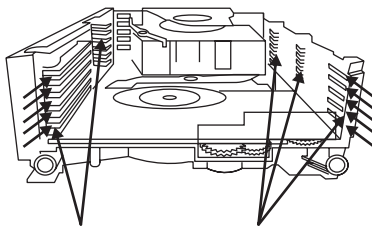
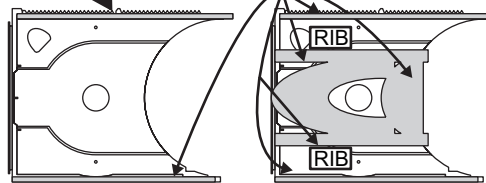




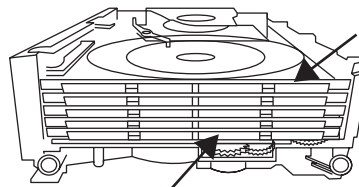


APPLY SANKOL ON TOP

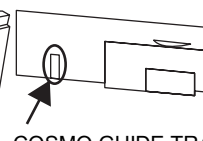
APPLY SANKOL INSIDE THE SLOT
& OTHER SHOWN PORTION



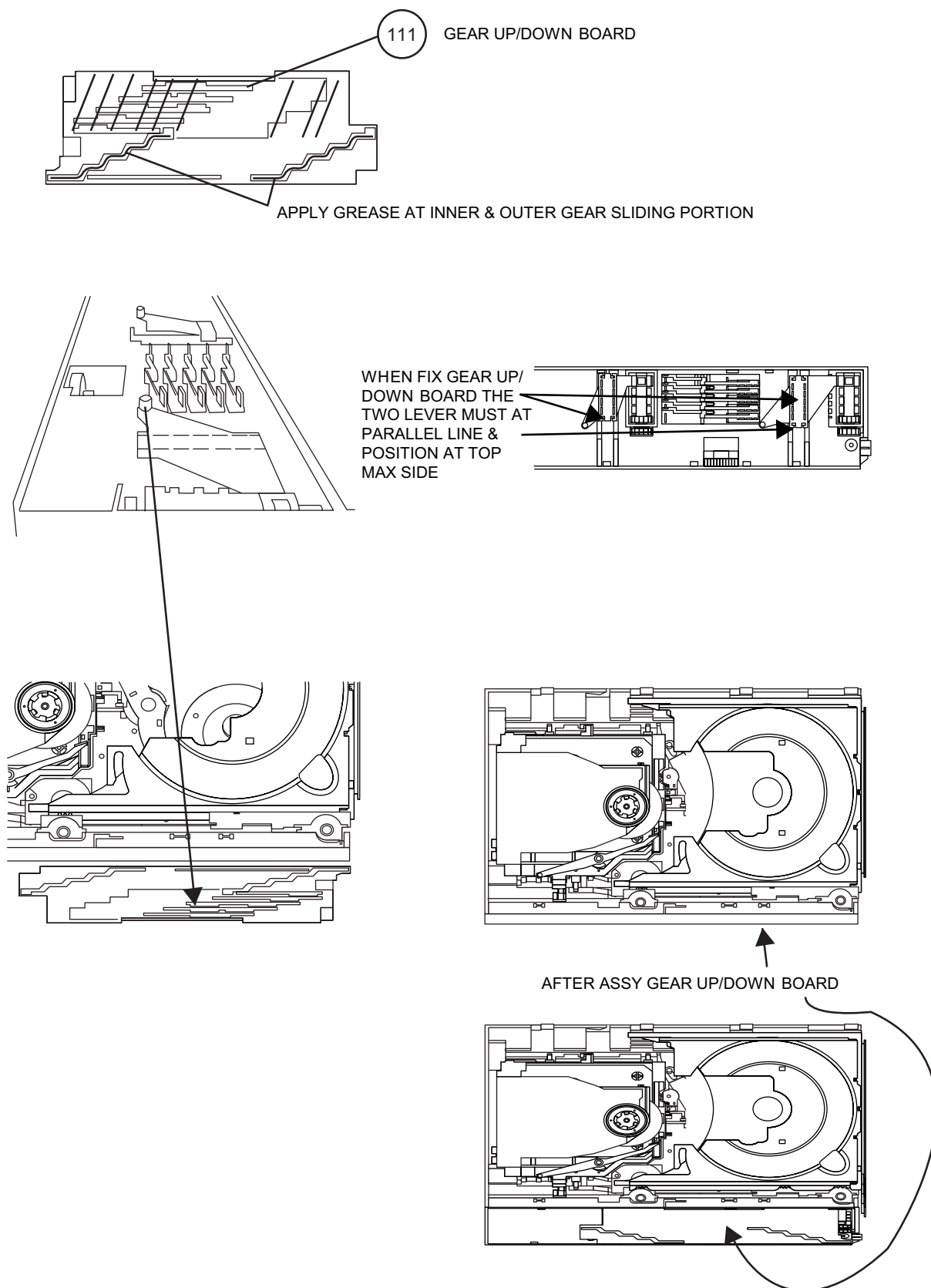
APPLY SANKOL AT TRAY SLIDING PORTION

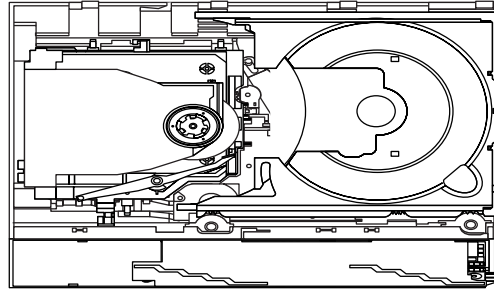


FIX TRAY NO 1 FIRST THAN
FOLLOW OTHER

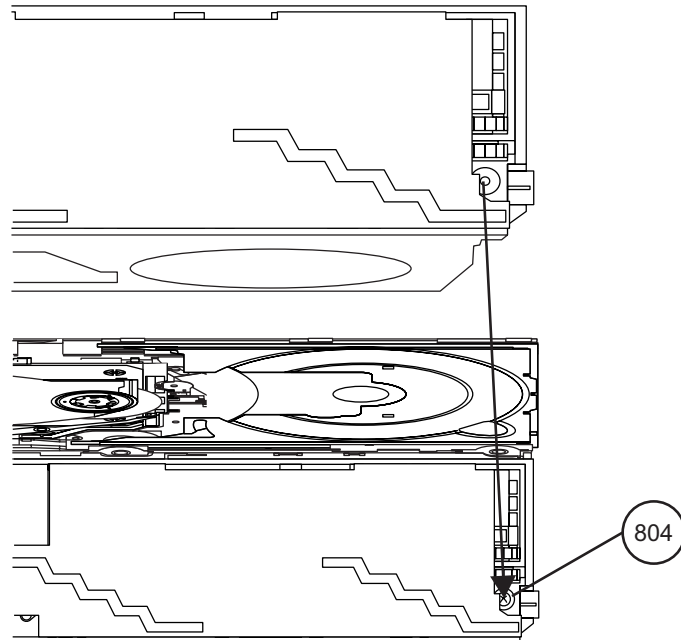


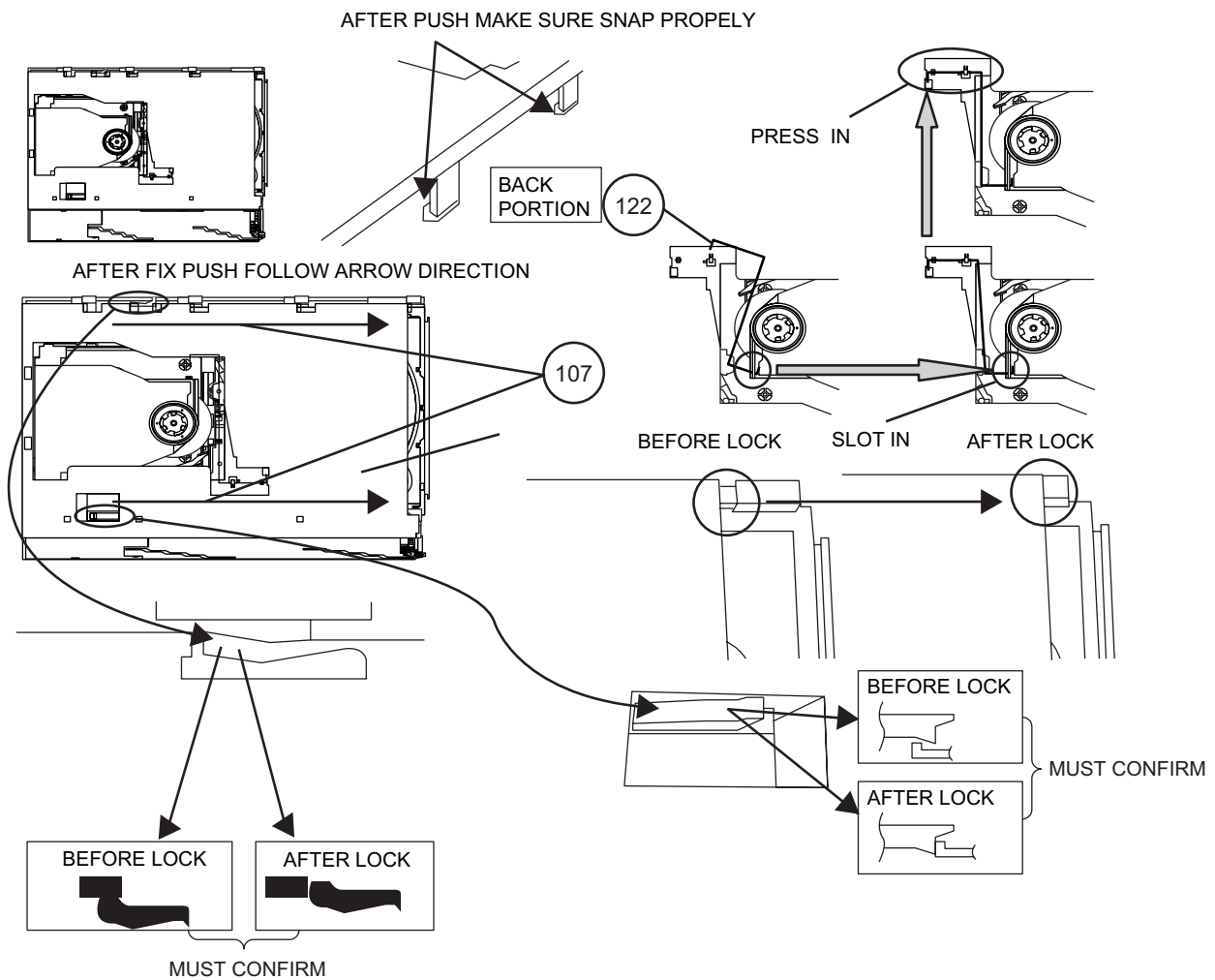
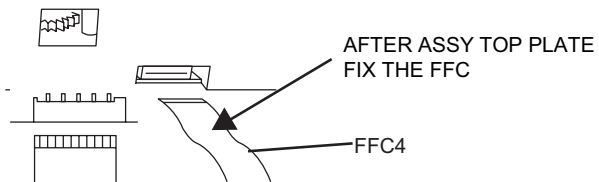
COSMO GUIDE TRAY HAVE
MARKING AS SHOWN

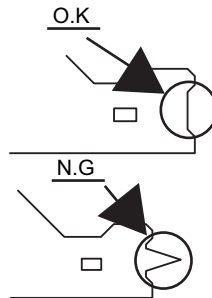
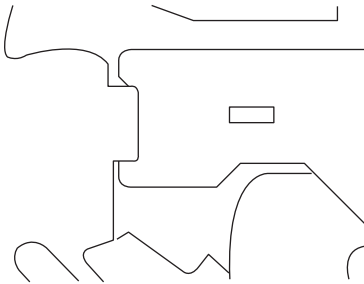
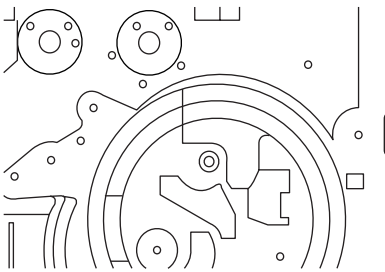
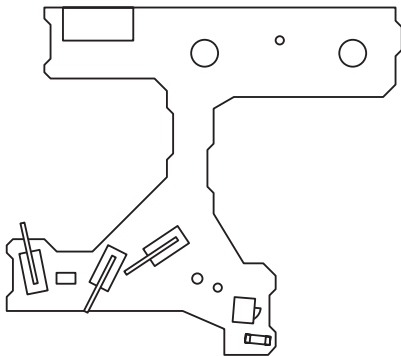




SCREW TORQUE

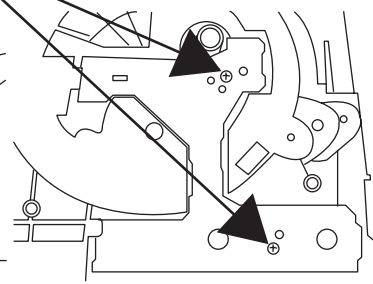
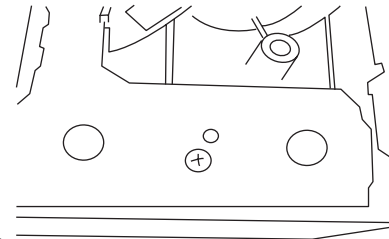
 $3^{+0.5}_{-0}$ kgf-cm



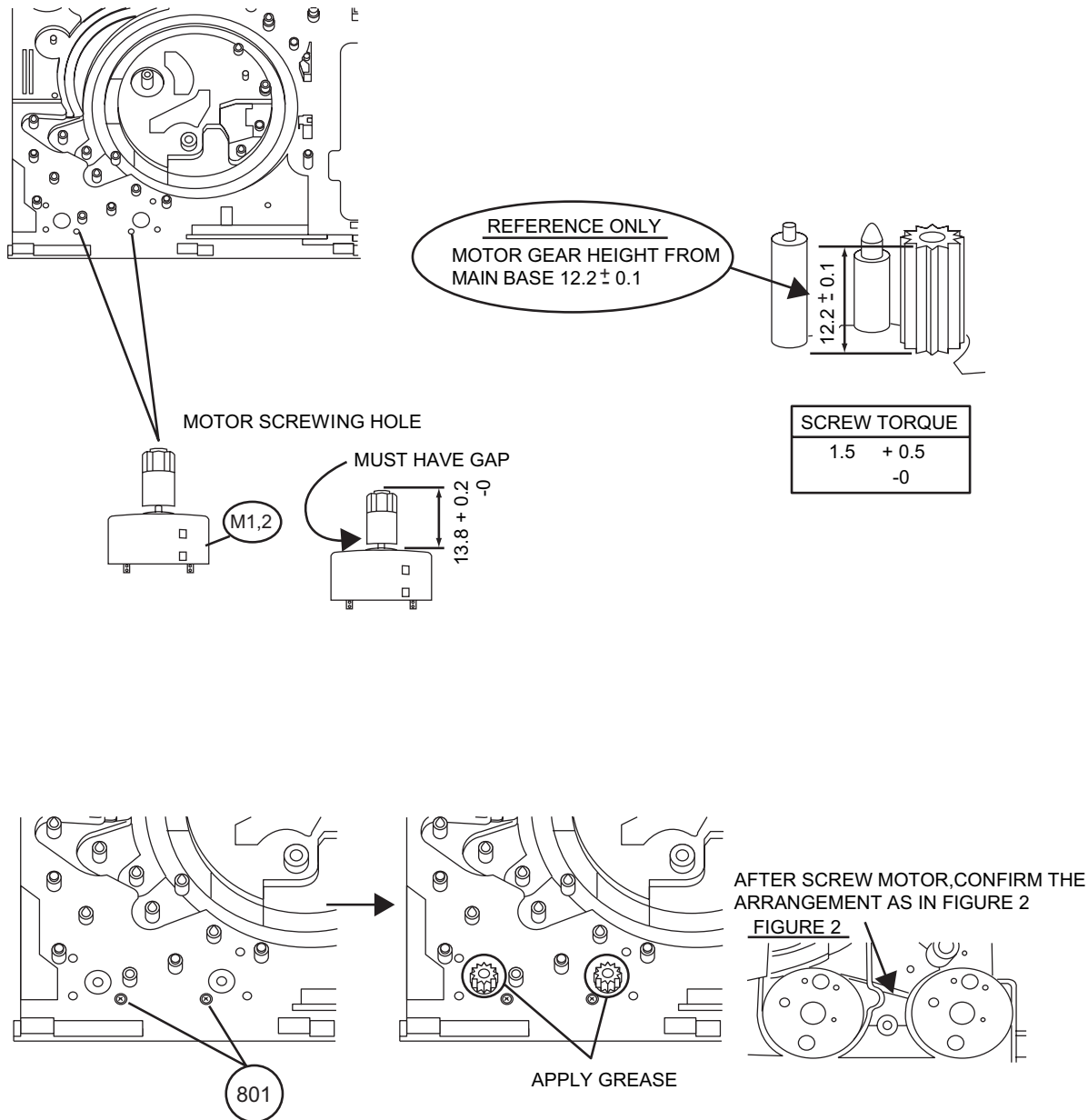
**CAUTION**

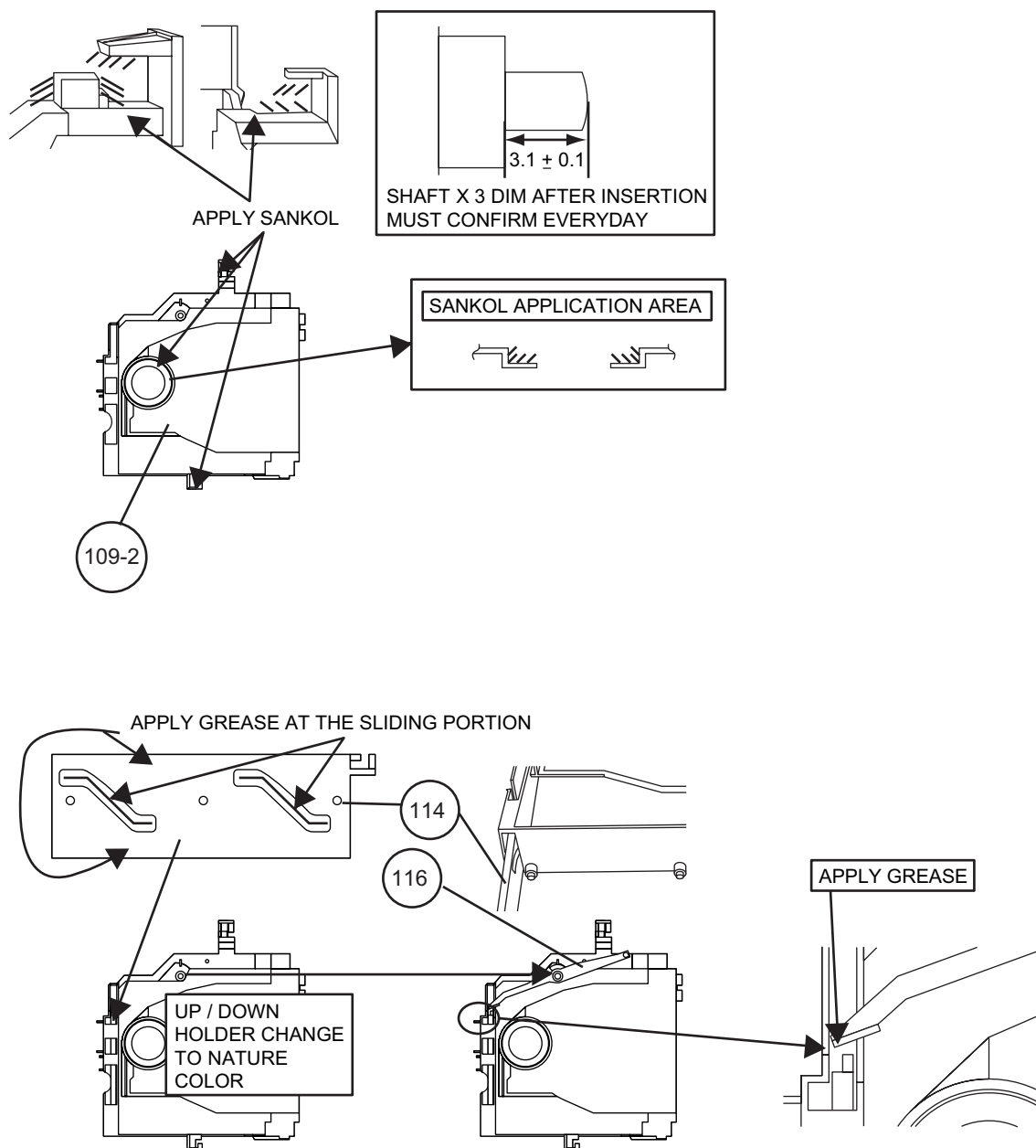
1. MAKE SURE NO PWB CHIP INSIDE SET .(BEFORE
FIX MAKE SURE PWB NO DUST , GREASE & ETC)

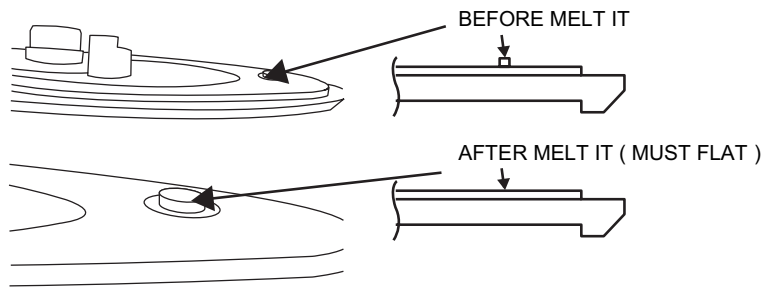
803



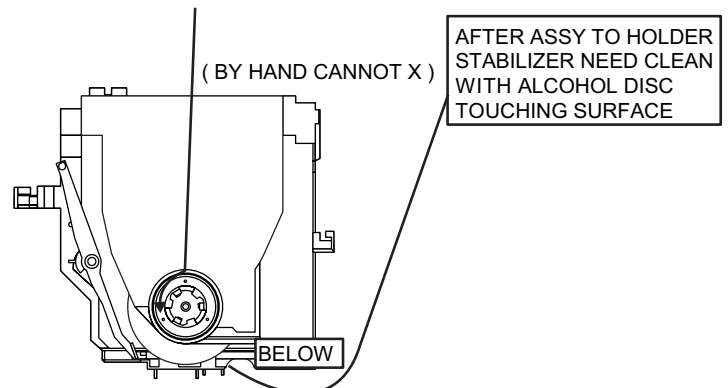
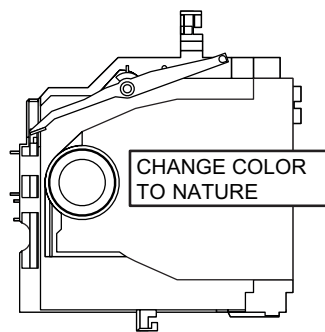


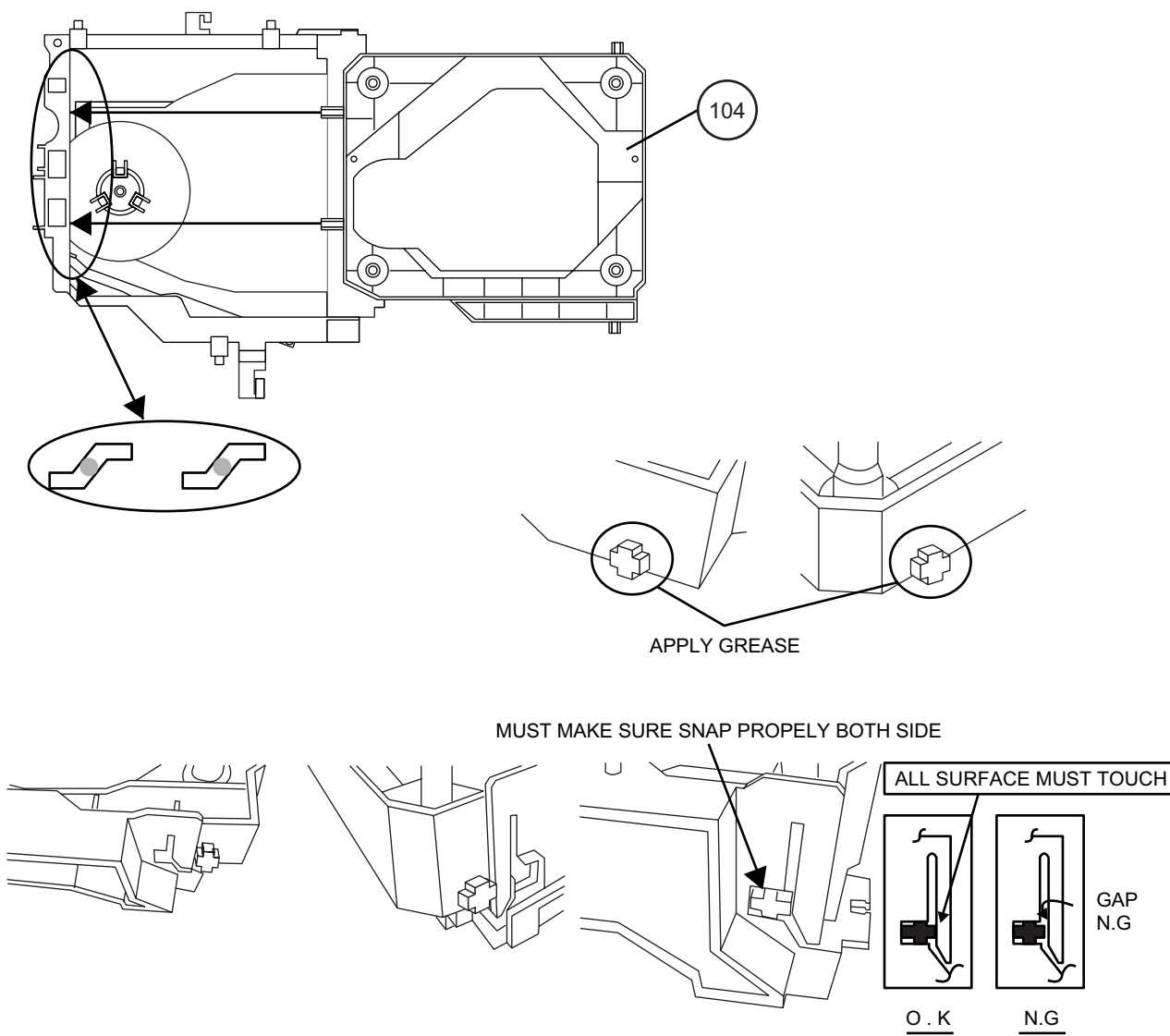




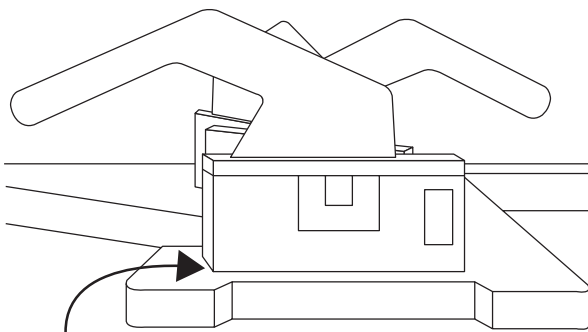


WHEN FITTING STABILIZER PLATE TO STABILIZER,
ROTATE STABILIZER ANTI CLOCKWISE BY JIG



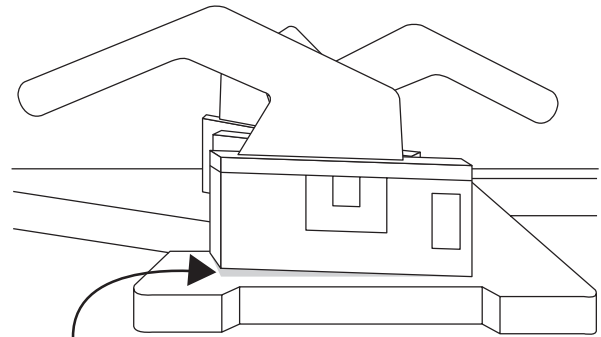


32



NO GAP

O.K



HAVE GAP

N.G

CHAPTER 3. MECHANISM BLOCKS

[1] Caution on disassembly

Caution on Disassembly

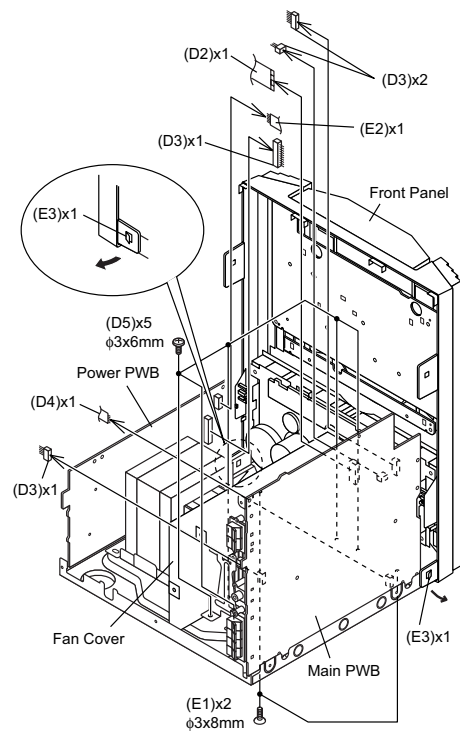
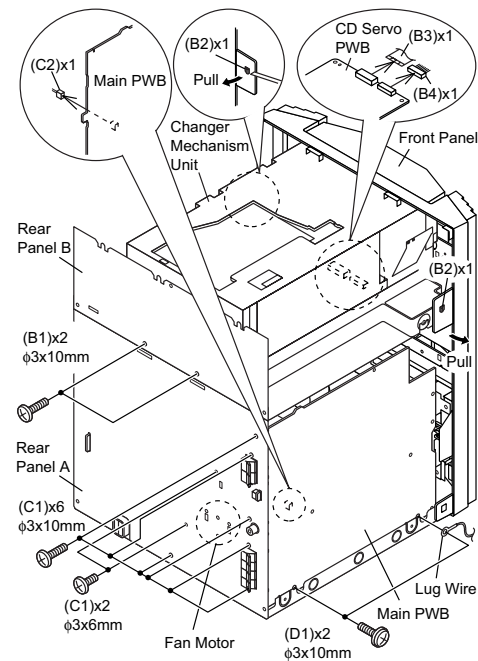
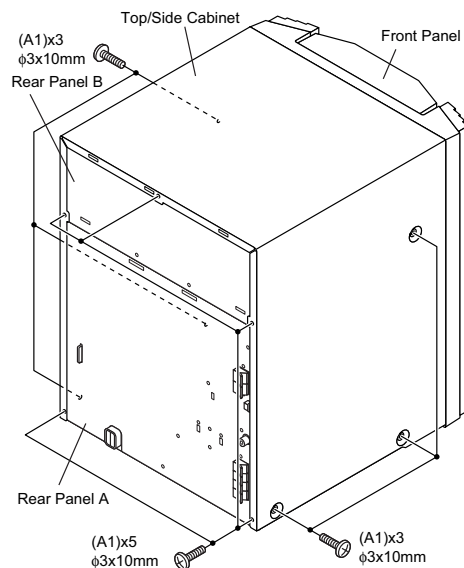
Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

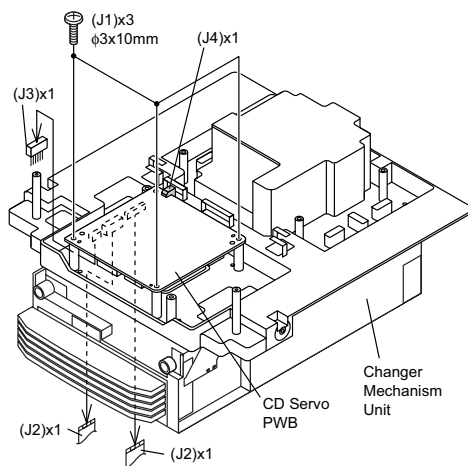
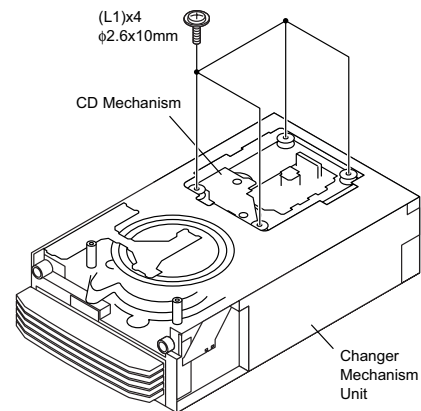
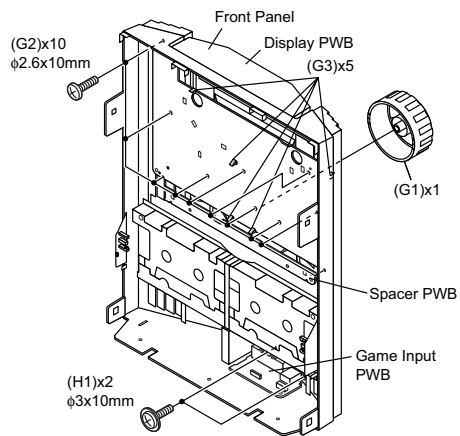
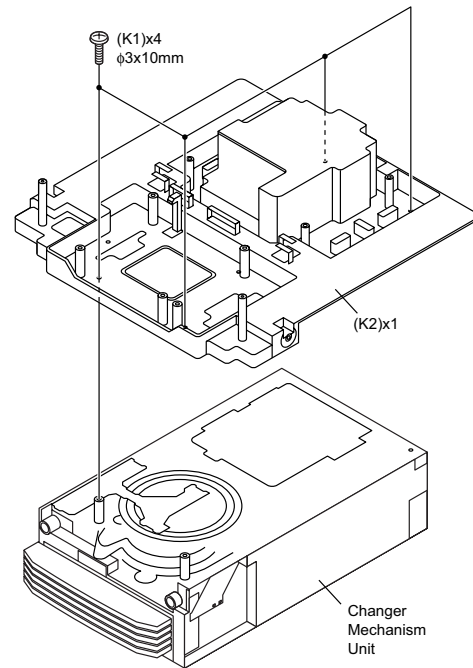
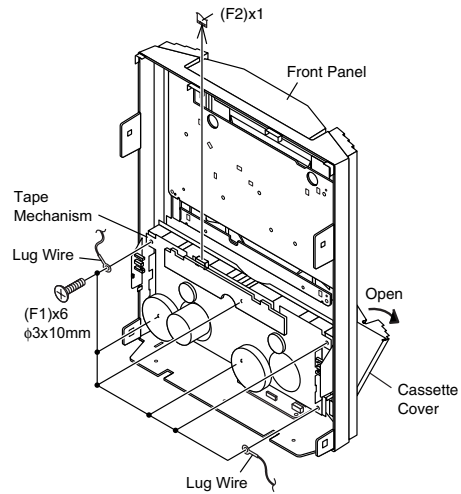
1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.

| CD-MPS900/CD-MPS99 | | |
|--------------------|--------------------------------|--|
| STEP | REMOVAL | PROCEDURE |
| 1 | Top/Side Cabinet | 1. Screw (A1) x11 |
| 2 | Changer Unit/ Rear Panel B | 1. Screw (B1) x2 2. Hook (B2) x2 3. Flat Cable (B3) x1 4. Socket (B4) x1 |
| 3 | Rear Panel A with Fan motor | 1. Screw (C1) x8 2. Socket (C2) x1 |
| 4 | Main PWB | 1. Screw (D1) x2 2. Flat Cable (D2) x1 3. Socket (D3) x4 4. Flat Wire (D4) x1 5. Screw (D5) x5 |
| 5 | Front Panel | 1. Screw (E1) x2 2. Flat Wire (E2) x1 3. Hook (E3) x2 |
| 6 | Tape Mechanism | 1. Open the Cassette Cover. 2. Screw (F1) x6 3. Flat Cable (F2) x1 |
| 7 | Display PWB | 1. Knob (G1) x1 2. Screw (G2) x10 3. Hook (G3) x5 |
| 8 | Game Input PWB | 1. Screw (H1) x2 |
| 9 | CD Servo PWB | 1. Screw (J1) x3 2. Flat Cable (J2) x2 3. Socket (J3) x1 4. Hook (J4) x1 |
| 10 | Changer Mechanism Unit | 1. Screw (K1) x4 2. Changer Chassis (K2) x1 |
| 11 | CD Mechanism | 1. Screw (L1) x4 |

Note:

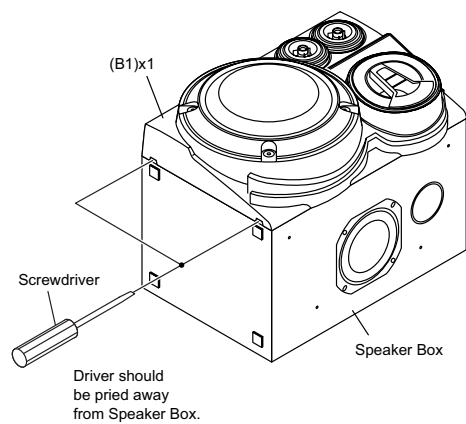
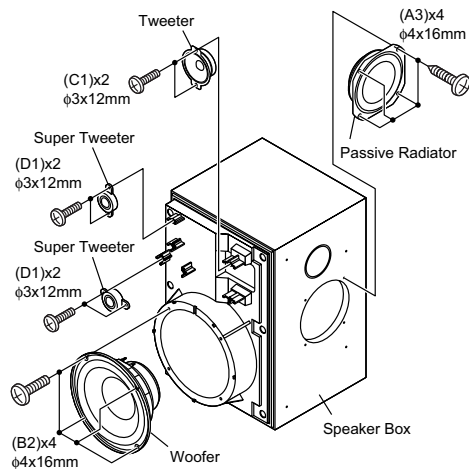
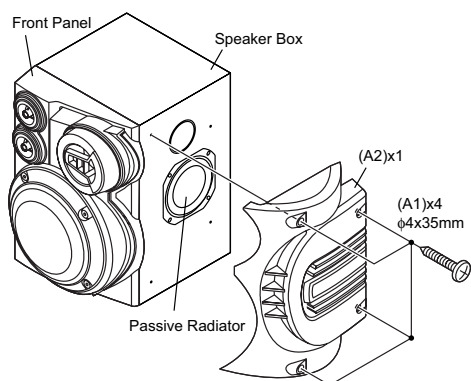
After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electrostatic damage.





CP-MPS900/CP-MPS99

| STEP | REMOVAL | PROCEDURE |
|------|------------------|---|
| 1 | Passive Radiator | 1. Screw (A1) x4 2. Side Panel (A2) x1 3. Screw (A3) x4 |
| 2 | Woofer | 1. Front Panel (B1) x1 2. Screw (B2) x4 |
| 3 | Tweeter | 1. Screw (C1) x2 |
| 4 | Super Tweeter | 1. Screw (D1) x4 |



[2] Removing and reinstalling the main parts

1. TAPE MECHANISM SECTION

Perform steps 1 to 5 and 6 of the disassembly method to remove the tape mechanism.

1.1. How to remove the record/playback and erase heads (TAPE 2) (See Fig. 1)

- When you remove the screws (A1) x 2 pcs., the recording/playback head and three-dimensional head of the erasing head can be removed.

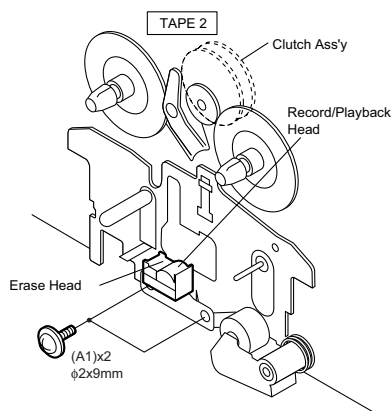


Figure 1

1.2. How to remove the playback head (TAPE 1) (See Fig. 2)

- When you remove the screws (B1) x 2 pcs., the playback head can be removed.

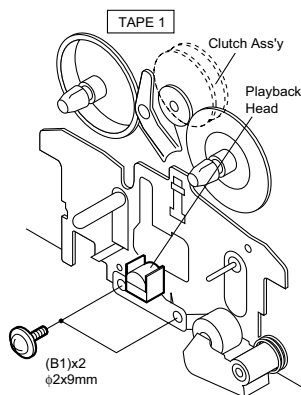


Figure 2

1.3. How to remove the pinch roller (TAPE 1/2) (See Fig. 3)

- Carefully bend the pinch roller pawl in the direction of the arrow <A>, and remove the pinch roller (C1) x 1 pc., in the direction of the arrow .

Note:

When installing the pinch roller, pay attention to the spring mounting position.

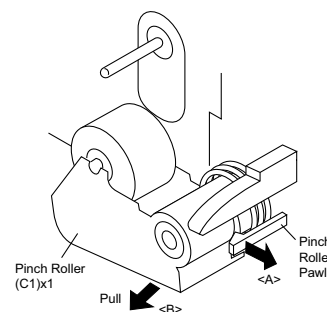


Figure 3

1.4. How to remove the belt (TAPE 2) (See Fig. 4)

- Remove the main belt (D1) x 1 pc., from the motor side.
- Remove the FF/REW belt (D2) x 1 pc.

1.5. How to remove the belt (TAPE 1) (See Fig. 4)

- Remove the main belt (E1) x 1 pc., from the motor side.
- Remove the FF/REW belt (E2) x 1 pc.

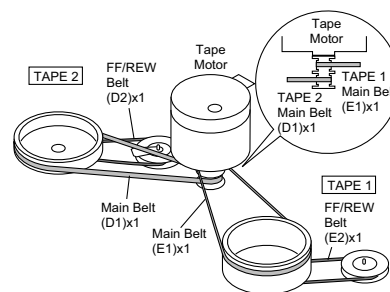


Figure 4

1.6. How to remove the motor (See Fig. 5)

- Remove the screws (F1) x 2 pcs., to remove the motor.

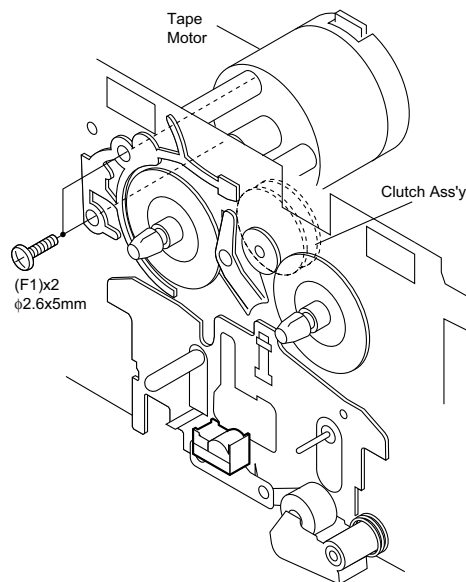


Figure 5

2. CD MECHANISM SECTION

Perform steps 1, 2, 9, 10 and 11 of the disassembly method to remove the CD mechanism.

2.1. Remove the pickup. (See Fig. 1)

1. Remove the stop washer (A1) x 1 pc., to remove the gear (A2) x 1 pc.
2. Remove the screws (A3) x 2 pcs., to remove the shaft (A4) x 1 pc.
3. Remove the pickup.

Note

After removing the connector for the optical pickup from the connector wrap the conductive aluminium foil around the front end of connector so as to protect the optical pickup from electrostatic damage.

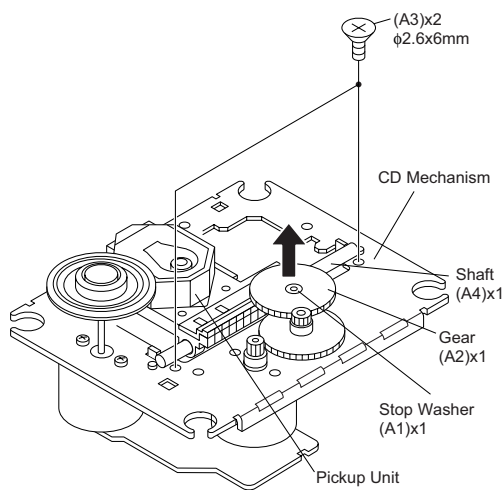


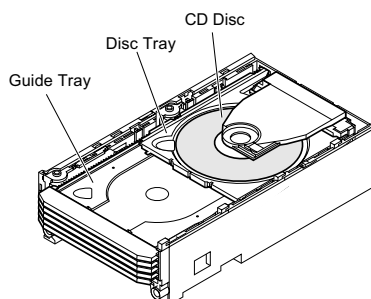
Figure 1

3. CHANGER MECHANISM SECTION

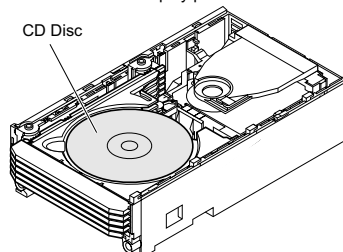
Perform steps 1, 2, 9 and 10 of the disassembly method to remove the CD changer mechanism.

3.1. How to remove CD Disc (See Fig. 2~5)

1. When CD is at play position (Figure 2), rotate reduction gear C clock-wise as shown in Figure 3 Until disc tray is at stock position, then rotate further to eject the disc tray so that CD can be removed from the tray.



CD At play position.



CD At stock position.

Figure 2

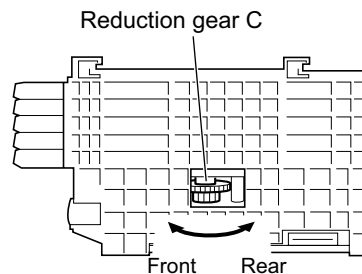


Figure 3

2. In another case, if CD mechanism is at tray No.1 play position and to remove CD located in tray No.3, the procedure is as follows:

If the gear up down board is located at tray No.1 position, then rotate gear clock-wise until it at stock position. Rotate reduction gear D clockwise (Figure 4) to move the CD mechanism to tray No.3 position. This is confirmed by checking the gear up down board position by the marking as indicated on the main chassis as shown in Figure 5.

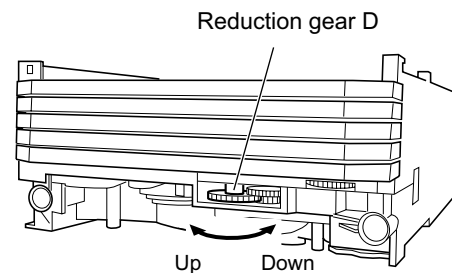


Figure 4

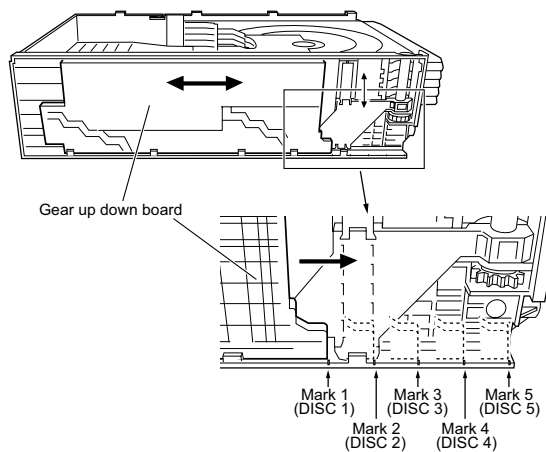


Figure 5

3.2. How to Remove the tray motor/main cam motor/5-Changer Motor PWB (See Fig. 6)

1. Remove the screws (A1)x 2 pcs., to remove tray motor/main cam motor/5-Changer Motor PWB.

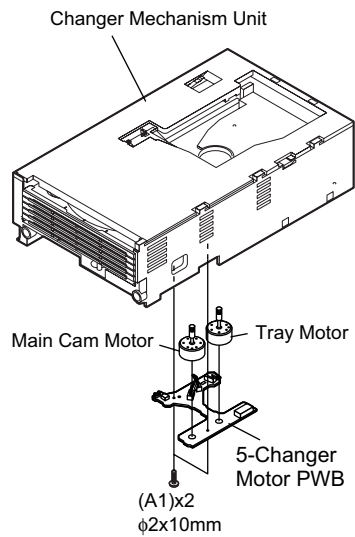


Figure 6

NOTE: There are 2 more screws tighten the motors at the bottom of main chassis. Before performing procedure 1 above, disc stop spring, top plate sear up down board and trays must be removed, then only the 2 screws can be untighten.

4 - 1

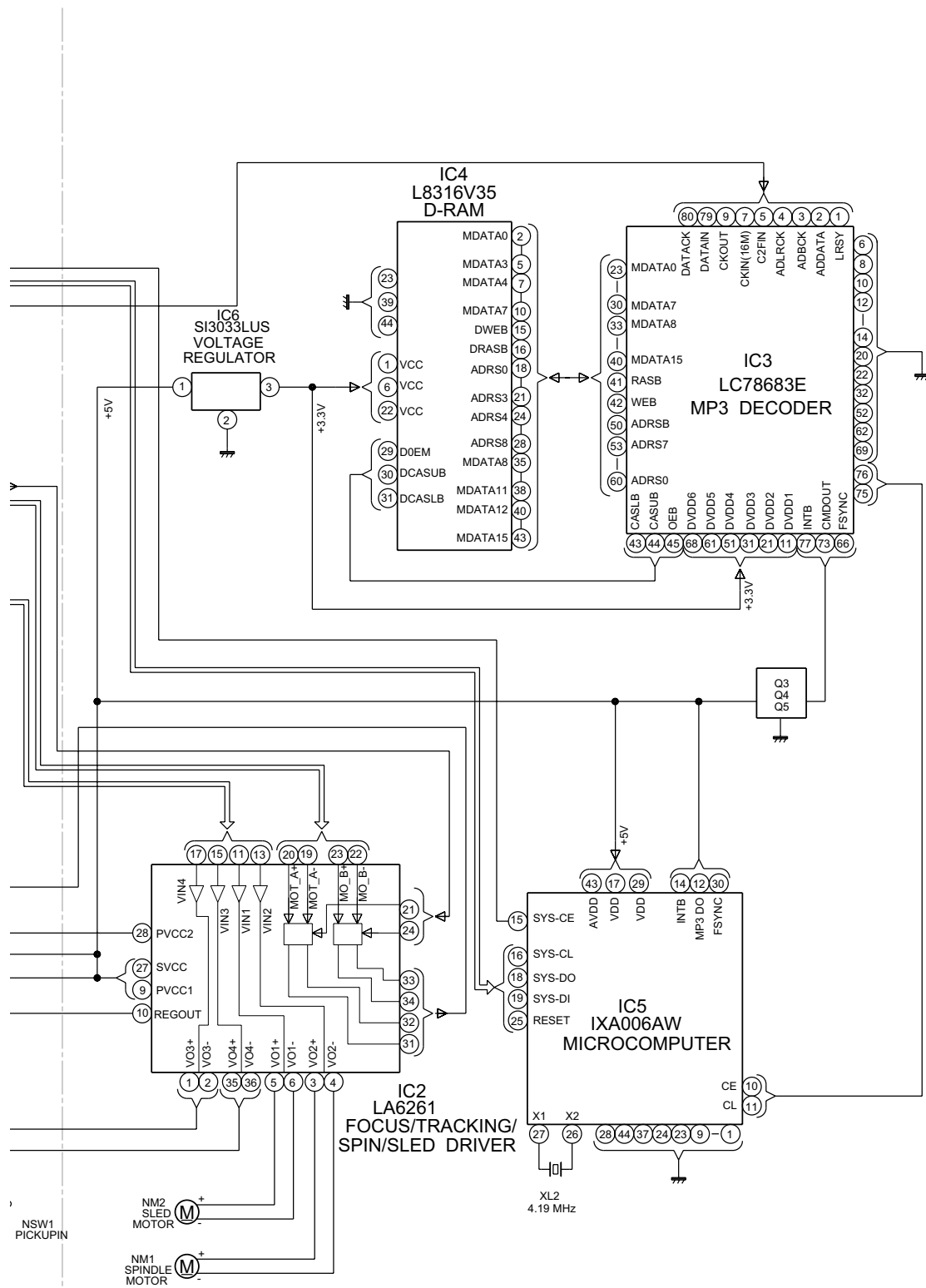


Figure 4-2 BLOCK DIAGRAM (2/4)

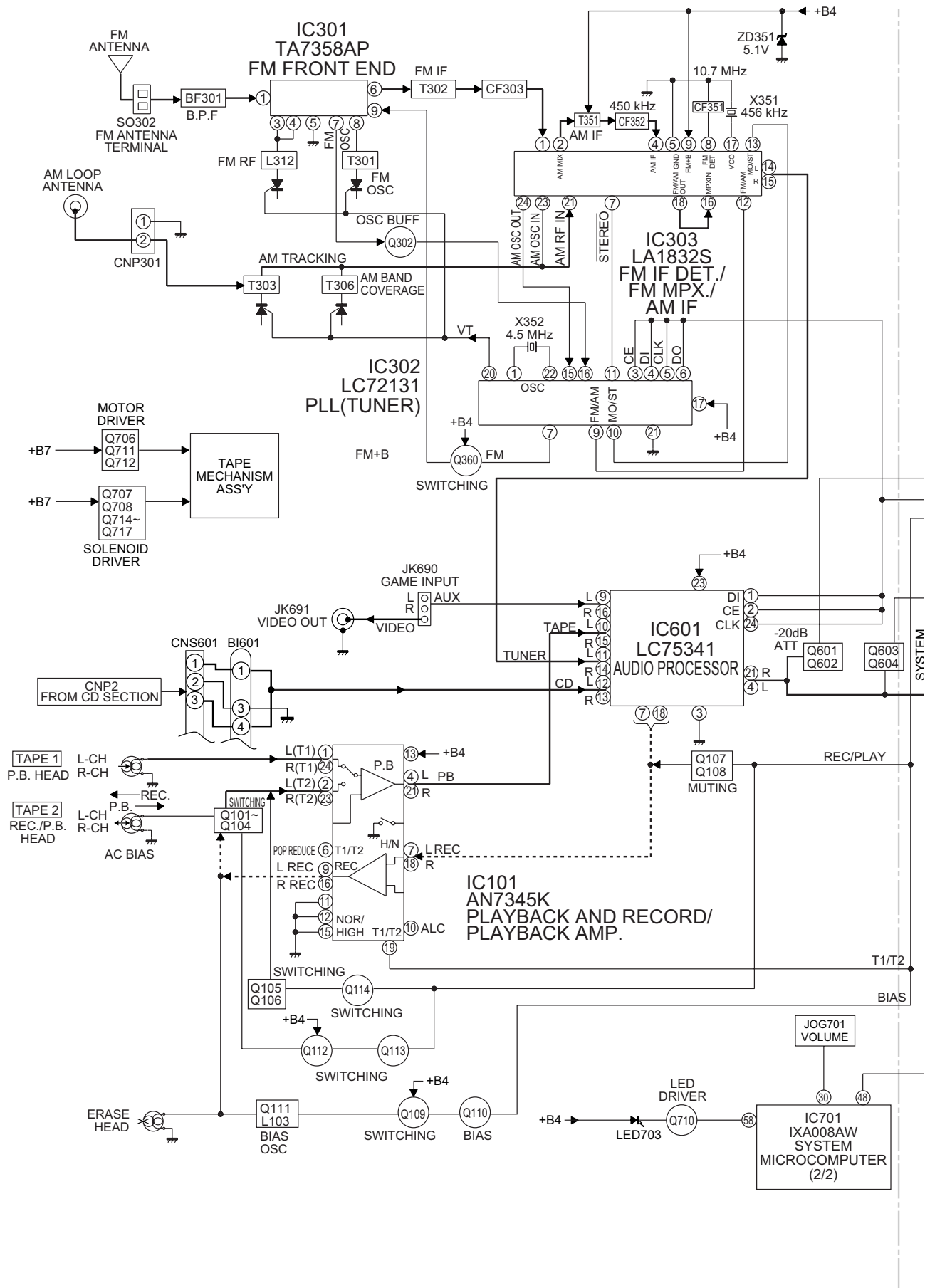


Figure 4-3 BLOCK DIAGRAM (3/4)

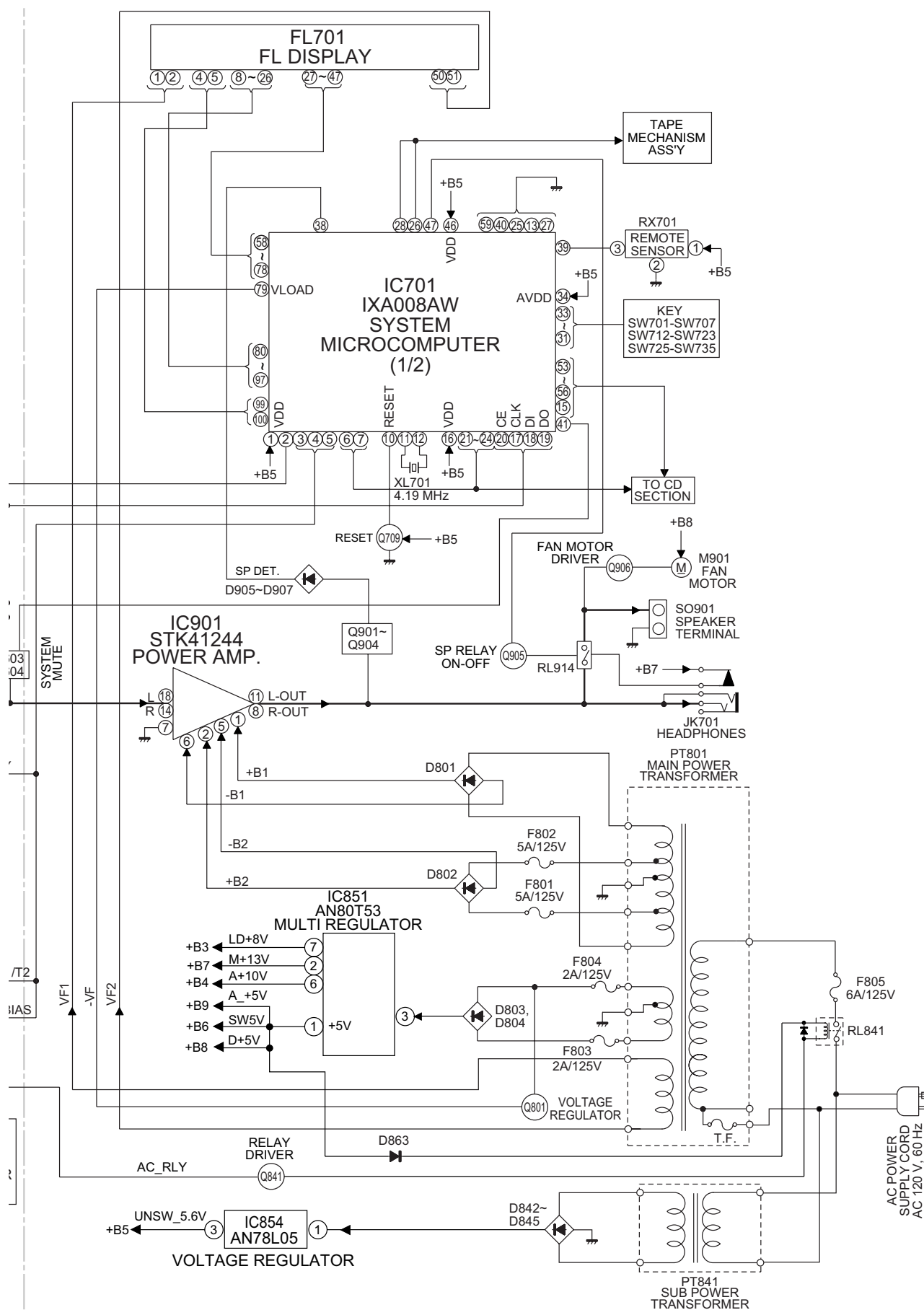


Figure 4-4 BLOCK DIAGRAM (4/4)

CHAPTER 5. CIRCUIT DESCRIPTION

[1] Notes on schematic diagram

- Resistor:
To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.
- Capacitor:
To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
(CH), (TH), (RH), (UJ): Temperature compensation
(ML): Mylar type
(P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.

- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.

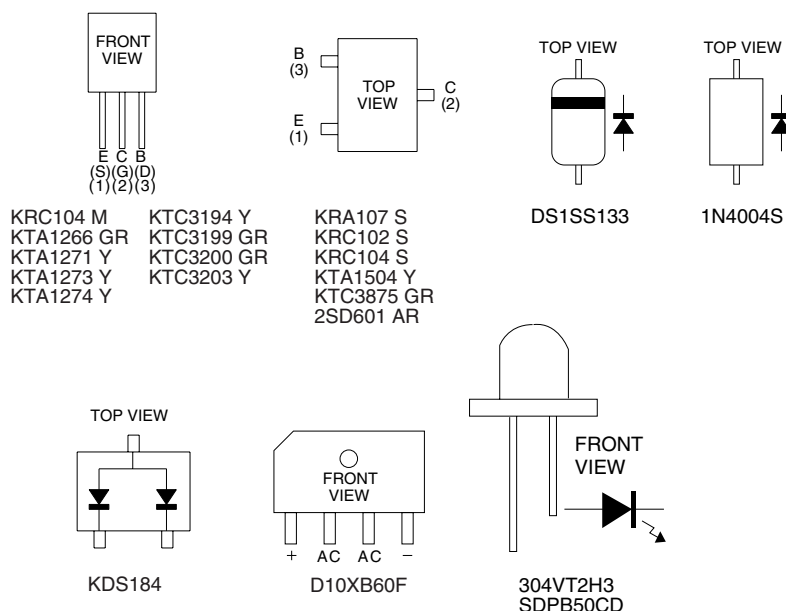
1. In the tuner section, indicates AM indicates FM stereo
2. In the main section, a tape is being played back.
3. In the deck section, a tape is being played back. () indicates the record state.
4. In the power section, a tape is being played back.
5. In the CD section, the CD is stopped.

- Parts marked with "△" (□ = = = □) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

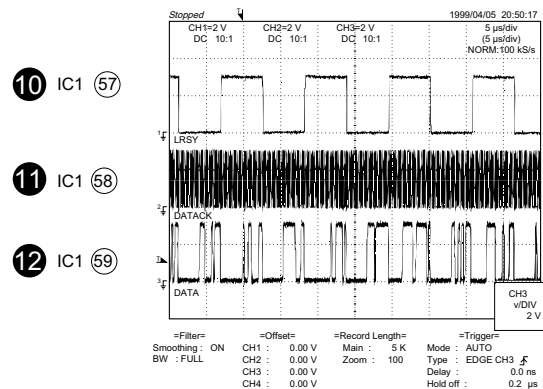
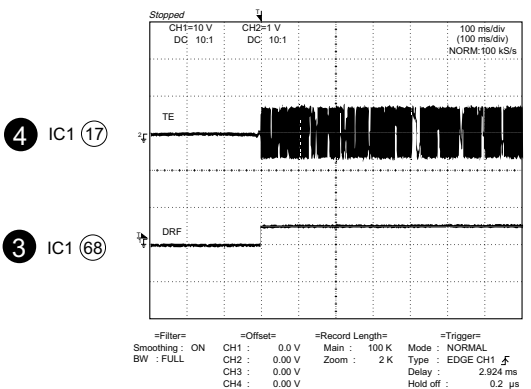
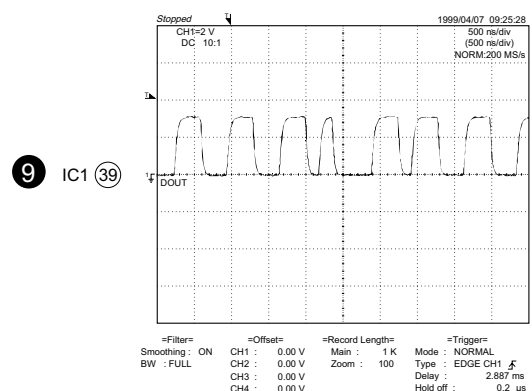
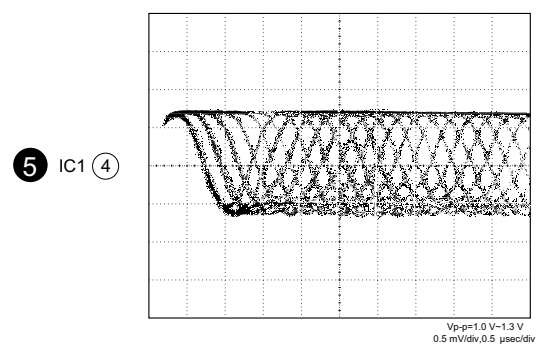
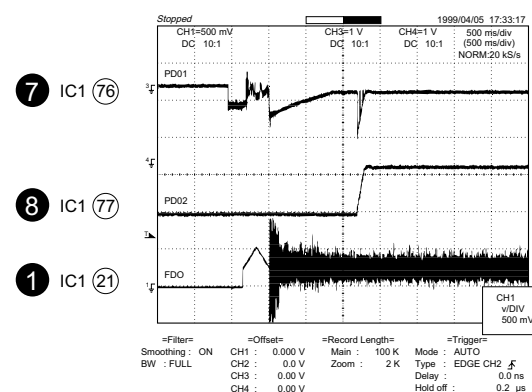
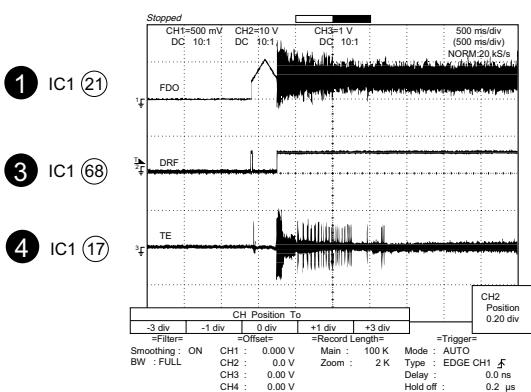
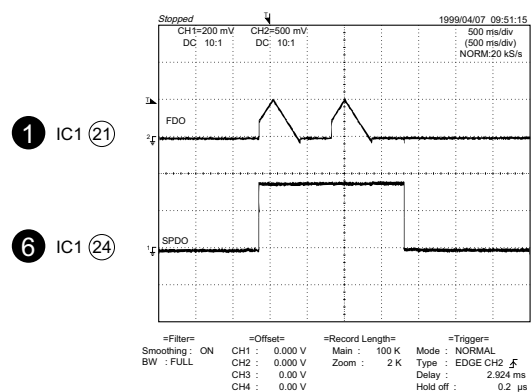
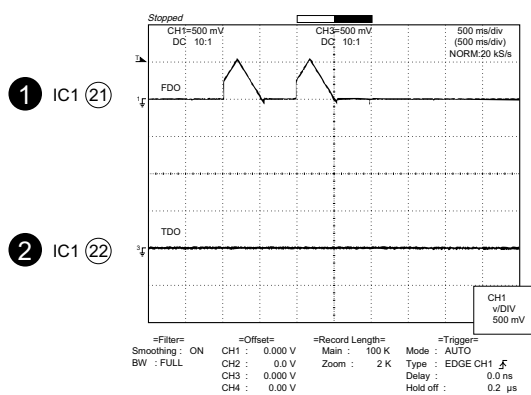
| REF. NO | DESCRIPTION | POSITION |
|---------|-------------------------|----------|
| JOG701 | VOLUME | ON—OFF |
| NSW1 | PICKUP IN | ON—OFF |
| SW1 | CLAMP | ON—OFF |
| SW2 | TRAY SW1 | ON—OFF |
| SW3 | TRAY SW2 | ON—OFF |
| SW4 | DISC | ON—OFF |
| SW701 | POWER ON/STAND-BY | ON—OFF |
| SW702 | CLOCK/TIMER | ON—OFF |
| SW703 | TUNING UP | ON—OFF |
| SW704 | TUNING DOWN | ON—OFF |
| SW705 | FAST REWIND/PRESET DOWN | ON—OFF |
| SW706 | EQUALIZER | ON—OFF |
| SW707 | FAST FORWARD/PRESET UP | ON—OFF |
| SW712 | TUNER (BAND) | ON—OFF |
| SW713 | CD | ON—OFF |
| SW714 | TAPE | ON—OFF |
| SW715 | GAME/VIDEO | ON—OFF |
| SW716 | X-BASS/DEMO | ON—OFF |

| REF. NO | DESCRIPTION | POSITION |
|---------|----------------|----------|
| SW717 | LEFT | ON—OFF |
| SW718 | UP | ON—OFF |
| SW719 | CHARACTER | ON—OFF |
| SW720 | RIGHT | ON—OFF |
| SW721 | ENTER | ON—OFF |
| SW722 | DOWN | ON—OFF |
| SW723 | MP3 NAVIGATION | ON—OFF |
| SW725 | PLAY/REPEAT | ON—OFF |
| SW726 | STOP | ON—OFF |
| SW727 | REC/PAUSE | ON—OFF |
| SW728 | MEMORY/SET | ON—OFF |
| SW729 | OPEN/CLOSE | ON—OFF |
| SW730 | DIRECT PLAY | ON—OFF |
| SW731 | DISC2 | ON—OFF |
| SW732 | DISC4 | ON—OFF |
| SW733 | DISC5 | ON—OFF |
| SW734 | DISC3 | ON—OFF |
| SW735 | DISC1 | ON—OFF |

[2] Types of transistor and LED



[3] Waveforms of CD circuit



[4] Voltage

| IC1 | |
|---------|---------|
| PIN NO. | VOLTAGE |
| 1 | 3.20 V |
| 2 | 1.61V |
| 3 | 1.61 V |
| 4 | 1.60 V |
| 5 | 1.61 V |
| 6 | 3.08 V |
| 7 | 1.65 V |
| 8 | 1.65 V |
| 9 | 1.65 V |
| 10 | 1.65 V |
| 11 | 1.48 V |
| 12 | 0 V |
| 13 | 1.65 V |
| 14 | 0 V |
| 15 | 1.65 V |
| 16 | 1.47 V |
| 17 | 1.48 V |
| 18 | 0 V |
| 19 | 0 V |
| 20 | 0 V |
| 21 | 1.60 V |
| 22 | 0 V |
| 23 | 1.61 V |
| 24 | 1.61 V |
| 25 | 0 V |
| 26 | 0 V |
| 27 | 3.20 V |
| 28 | 0 V |
| 29 | 3.20 V |
| 30 | 0 V |
| 31 | 0 V |
| 32 | 1.59 V |
| 33 | 1.60 V |
| 34 | 3.20 V |
| 35 | 0 V |
| 36 | 0 V |
| 37 | 0 V |
| 38 | 0 V |
| 39 | 0 V |
| 40 | 0 V |
| 41 | 3.61 V |
| 42 | 0 V |
| 43 | 0 V |
| 44 | 1.80 V |
| 45 | 3.60 V |
| 46 | 0 V |
| 47 | 1.45 V |
| 48 | 1.49 V |
| 49 | 3.19 V |
| 50 | 3.79 V |
| 51 | 0 V |
| 52 | 0 V |
| 53 | 0 V |
| 54 | 0 V |
| 55 | 0 V |
| 56 | 0 V |
| 57 | 0 V |
| 58 | 0 V |
| 59 | 0 V |
| 60 | 3.20 V |
| 61 | 0 V |
| 62 | 0 V |
| 63 | 0.53 V |
| 64 | 0 V |
| 65 | 5.16 V |
| 66 | 5.18 V |
| 67 | 4.68 V |
| 68 | 0 V |
| 69 | 0 V |
| 70 | 0 V |
| 71 | 0 V |
| 72 | 0 V |
| 73 | 0 V |
| 74 | 4.86 V |
| 75 | 4.86 V |
| 76 | 3.01 V |
| 77 | 0 V |
| 78 | 1.12 V |
| 79 | 0 V |
| 80 | 3.20 V |

| IC2 | |
|---------|---------|
| PIN NO. | VOLTAGE |
| 1 | 2.10 V |
| 2 | 2.20 V |
| 3 | 2.10 V |
| 4 | 2.20 V |
| 5 | 2.10 V |
| 6 | 2.20 V |
| 7 | 0 V |
| 8 | 4.37 V |
| 9 | 5.02 V |
| 10 | 3.20 V |
| 11 | 1.62 V |
| 12 | 1.65 V |
| 13 | 1.62 V |
| 14 | 1.65 V |
| 15 | 1.62 V |
| 16 | 0 V |
| 17 | 1.62 V |
| 18 | 1.64 V |
| 19 | 4.71 V |
| 20 | 4.71 V |
| 21 | 3.92 V |
| 22 | 3.11 V |
| 23 | 3.10 V |
| 24 | 2.50 V |
| 25 | 1.65 V |
| 26 | 0 V |
| 27 | 5.02 V |
| 28 | 8.68 V |
| 29 | 5.02 V |
| 30 | 0.59 V |
| 31 | 0.71 V |
| 32 | 0 V |
| 33 | 0 V |
| 34 | 0 V |
| 35 | 2.11 V |
| 36 | 2.20 V |

| IC101 | |
|---------|---------|
| PIN NO. | VOLTAGE |
| 1 | 0 V |
| 2 | 0 V |
| 3 | 0.57 V |
| 4 | 2.03 V |
| 5 | 0.44 V |
| 6 | 0 V |
| 7 | 0 V |
| 8 | 0.58 V |
| 9 | 3.45 V |
| 10 | 3.35 V |
| 11 | 0 V |
| 12 | 0 V |
| 13 | 6.97 V |
| 14 | 4.16 V |
| 15 | 0 V |
| 16 | 3.42 V |
| 17 | 0.57 V |
| 18 | 0 V |
| 19 | 0 V |
| 20 | 0.41 V |
| 21 | 2.03 V |
| 22 | 0.57 V |
| 23 | 0 V |
| 24 | 0 V |

| IC301 | |
|---------|---------|
| PIN NO. | VOLTAGE |
| 1 | 0 V |
| 2 | 0 V |
| 3 | 0.29 V |
| 4 | 0.20 V |
| 5 | 0 V |
| 6 | 0.29 V |
| 7 | 0.26 V |
| 8 | 0.29 V |
| 9 | 0.29 V |

| IC302 | |
|---------|---------|
| PIN NO. | VOLTAGE |
| 1 | 2.57 V |
| 2 | 0 V |
| 3 | 0 V |
| 4 | 0 V |
| 5 | 0 V |
| 6 | 5.22 V |
| 7 | 10.18 V |
| 8 | 4.76 V |
| 9 | 0 V |
| 10 | 0 V |
| 11 | 5.23 V |
| 12 | 0 V |
| 13 | 5.23 V |
| 14 | 0 V |
| 15 | 0 V |
| 16 | 2.59 V |
| 17 | 5.24 V |
| 18 | 0 V |
| 19 | 0 V |
| 20 | 10.18 V |
| 21 | 0 V |
| 22 | 2.57 V |

| IC303 | |
|---------|---------|
| PIN NO. | VOLTAGE |
| 1 | 1.97 V |
| 2 | 5.15 V |
| 3 | 1.97 V |
| 4 | 1.96 V |
| 5 | 0 V |
| 6 | 0 V |
| 7 | 5.21 V |
| 8 | 3.59 V |
| 9 | 5.15 V |
| 10 | 0 V |
| 11 | 2.01 V |
| 12 | 1.25 V |
| 13 | 2.27 V |
| 14 | 1.13 V |
| 15 | 1.10 V |
| 16 | 1.96 V |
| 17 | 0 V |
| 18 | 1.29 V |
| 19 | 2.08 V |
| 20 | 1.29 V |
| 21 | 1.95 V |
| 22 | 1.95 V |
| 23 | 5.15 V |
| 24 | 3.65 V |

| IC601 | |
|---------|---------|
| PIN NO. | VOLTAGE |
| 1 | 0 V |
| 2 | 0 V |
| 3 | 0 V |
| 4 | 5.10 V |
| 5 | 5.10 V |
| 6 | 5.10 V |
| 7 | 5.10 V |
| 8 | 5.11 V |
| 9 | 5.10 V |
| 10 | 5.10 V |
| 11 | 5.10 V |
| 12 | 5.10 V |
| 13 | 5.10 V |
| 14 | 5.10 V |
| 15 | 5.10 V |
| 16 | 5.10 V |
| 17 | 5.10V |
| 18 | 5.10 V |
| 19 | 5.10 V |
| 20 | 5.10 V |
| 21 | 5.10 V |
| 22 | 5.10 V |
| 23 | 10.20 V |
| 24 | 0 V |

| IC901 | |
|---------|----------|
| PIN NO. | VOLTAGE |
| 1 | 52.80 V |
| 2 | 21.60 V |
| 3 | 9.60 V |
| 4 | -9.70 V |
| 5 | -21.60V |
| 6 | -48.80 V |
| 7 | 0 V |
| 8 | -19.70 V |
| 9 | -22.90 V |
| 10 | -22.10 V |
| 11 | -18.60 V |
| 12 | -51.30 V |
| 13 | 51.40V |
| 14 | -0.14 V |
| 15 | -0.13 V |
| 16 | -50.04 V |
| 17 | -0.14 V |
| 18 | -0.14 V |

| IC851 | |
|---------|---------|
| PIN NO. | VOLTAGE |
| 1 | 5.22 V |
| 2 | 13.11 V |
| 3 | 20.66 V |
| 4 | 0 V |
| 5 | 19.72 V |
| 6 | 10.22 V |
| 7 | 8.67 V |

| IC701 | | | |
|---------|---------|---------|----------|
| PIN NO. | VOLTAGE | PIN NO. | VOLTAGE |
| 1 | 4.74 V | 51 | 0 V |
| 2 | 4.65 V | 52 | 0 V |
| 3 | 0 V | 53 | 0 V |
| 4 | 4.70 V | 54 | 0 V |
| 5 | 4.72V | 55 | 5.17 V |
| 6 | 4.72 V | 56 | 5.17 V |
| 7 | 0 V | 57 | -29.70 V |
| 8 | 0 V | 58 | 0 V |
| 9 | 0 V | 59 | -0.26 V |
| 10 | 4.83 V | 60 | -0.24 V |
| 11 | 2.27 V | 61 | -0.22 V |
| 12 | 1.99 V | 62 | -0.20 V |
| 13 | 0 V | 63 | -0.19 V |
| 14 | 4.73 V | 64 | -0.19 V |
| 15 | 0 V | 65 | -0.18 V |
| 16 | 4.74 V | 66 | -0.17 V |
| 17 | 0 V | 67 | -0.16 V |
| 18 | 0 V | 68 | 0 V |
| 19 | 5.22 V | 69 | -29.90 V |
| 20 | 0 V | 70 | -29.90 V |
| 21 | 0 V | 71 | -29.90 V |
| 22 | 4.68 V | 72 | -29.90 V |
| 23 | 0 V | 73 | -29.90 V |
| 24 | 0 V | 74 | -19.70 V |
| 25 | 0 V | 75 | -27.40 V |
| 26 | 5.20 V | 76 | -24.87 V |
| 27 | 0 V | 77 | -22.29 V |
| 28 | 5.01 V | 78 | -22.30 V |
| 29 | 5.01 V | 79 | -30.13 V |
| 30 | 2.64 V | 80 | -27.43 V |
| 31 | 5.01 V | 81 | -14.50 V |
| 32 | 5.01 V | 82 | -27.20 V |
| 33 | 0 V | 83 | -19.30 V |
| 34 | 0 V | 84 | -6.08 V |
| 35 | 5.01 V | 85 | -21.85 V |
| 36 | 1.67 V | 86 | -27.22 V |
| 37 | 5.20 V | 87 | -21.89 V |
| 38 | 5.01 V | 88 | -17.00 V |
| 39 | 4.87 V | 89 | -27.38 V |
| 40 | 0 V | 90 | -27.10 V |
| 41 | 2.02 V | 91 | -27.07 V |
| 42 | 0 V | 92 | -27.00 V |
| 43 | 13.10 V | 93 | -27.00 V |
| 44 | 0 V | 94 | -27.35 V |
| 45 | 0 V | 95 | -26.27 V |
| 46 | 4.74 V | 96 | -27.11 V |
| 47 | 0 V | 97 | -27.00 V |
| 48 | 4.61 V | 98 | -27.07 V |
| 49 | 0 V | 99 | -27.07 V |
| 50 | 0 V | 100 | -26.83 V |

— MEMO —

CHAPTER 6. CIRCUIT SCHEMATICS AND PARTS LAYOUT

[1] Schematic diagram

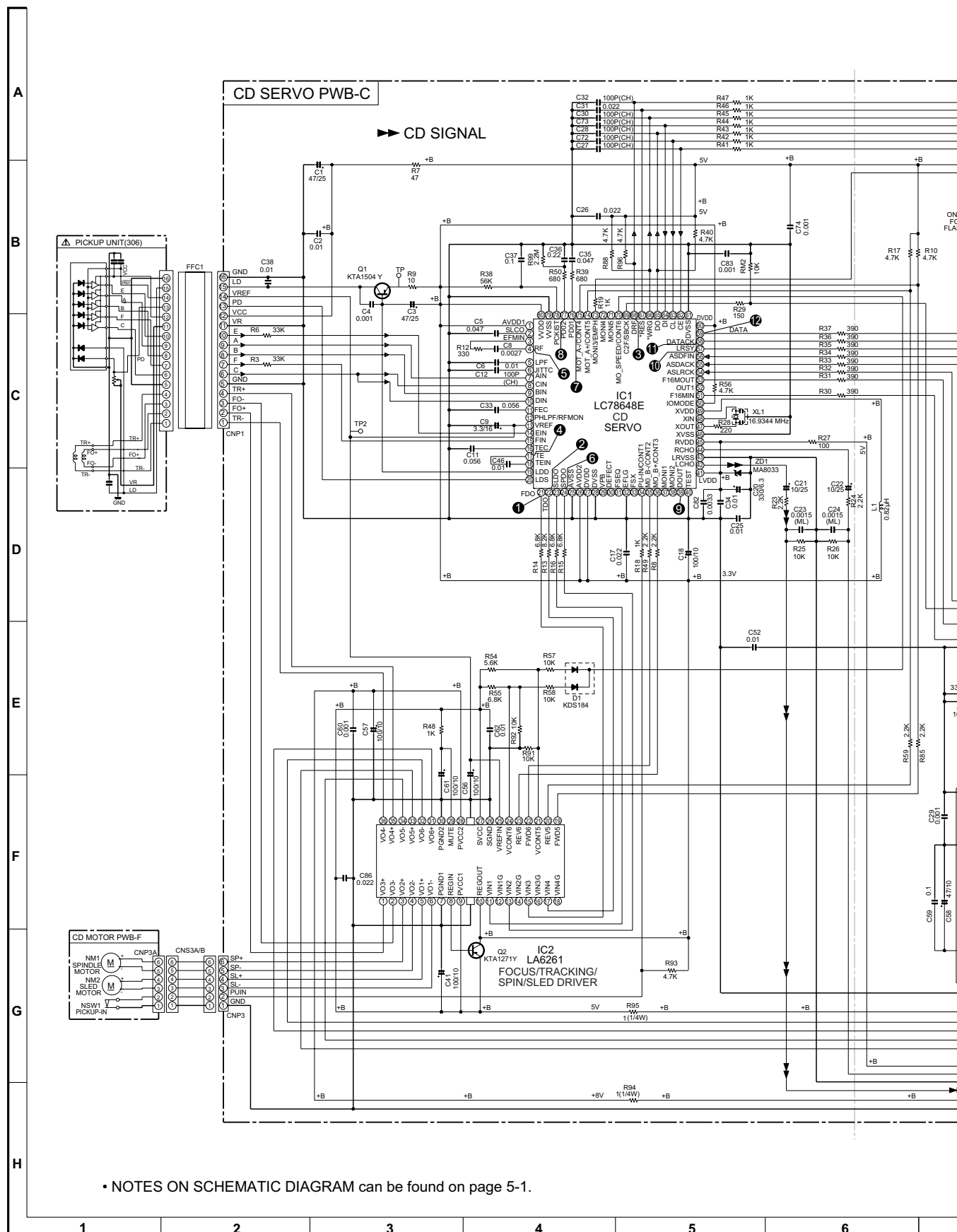
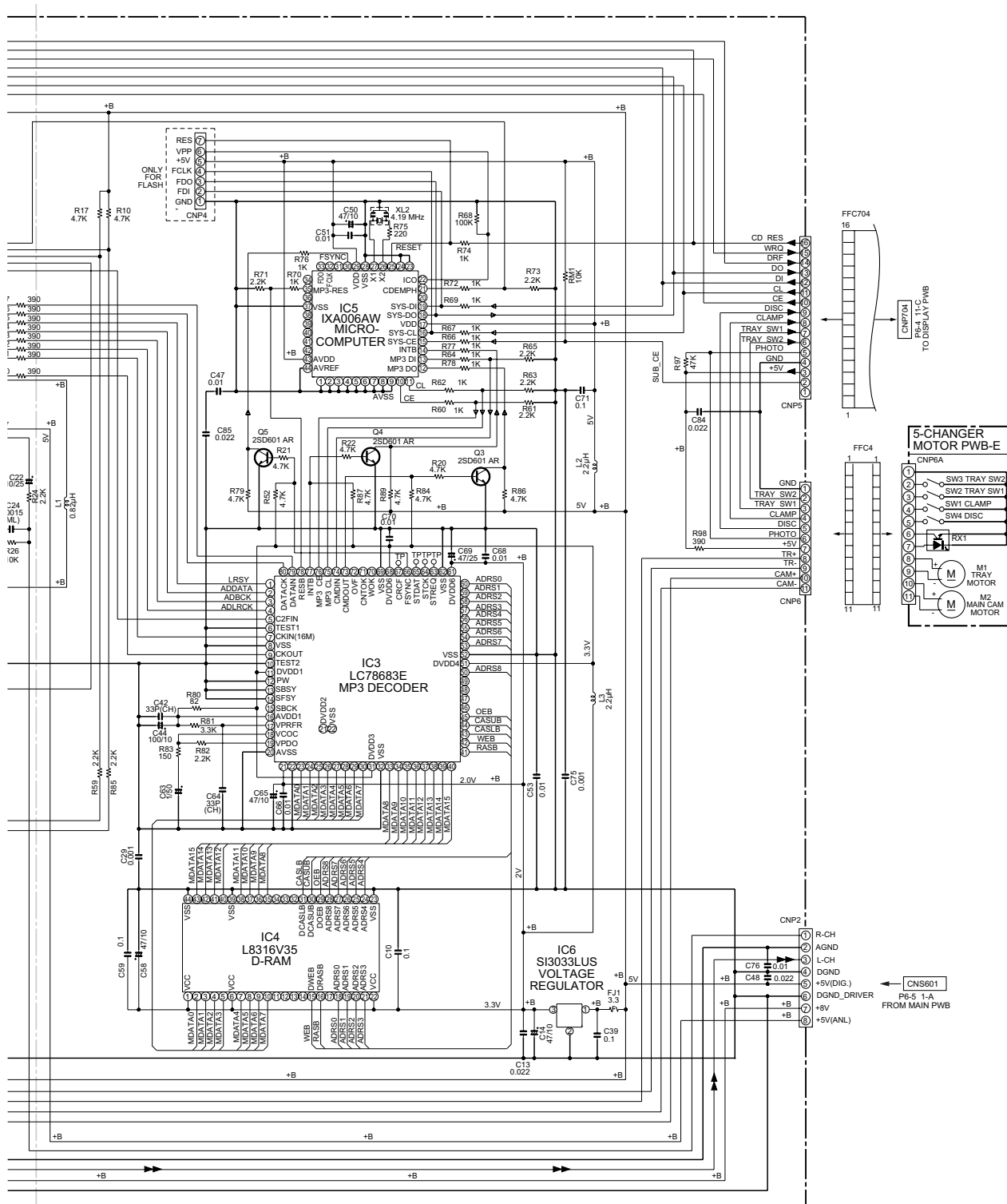


Figure 6-1 SCHEMATIC DIAGRAM (1/10)



• The number ① to ⑫ are waveform number shown in page 5-2.

| | | | | | | |
|---|---|---|---|----|----|----|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|----|----|----|

Figure 6-2 SCHEMATIC DIAGRAM (2/10)

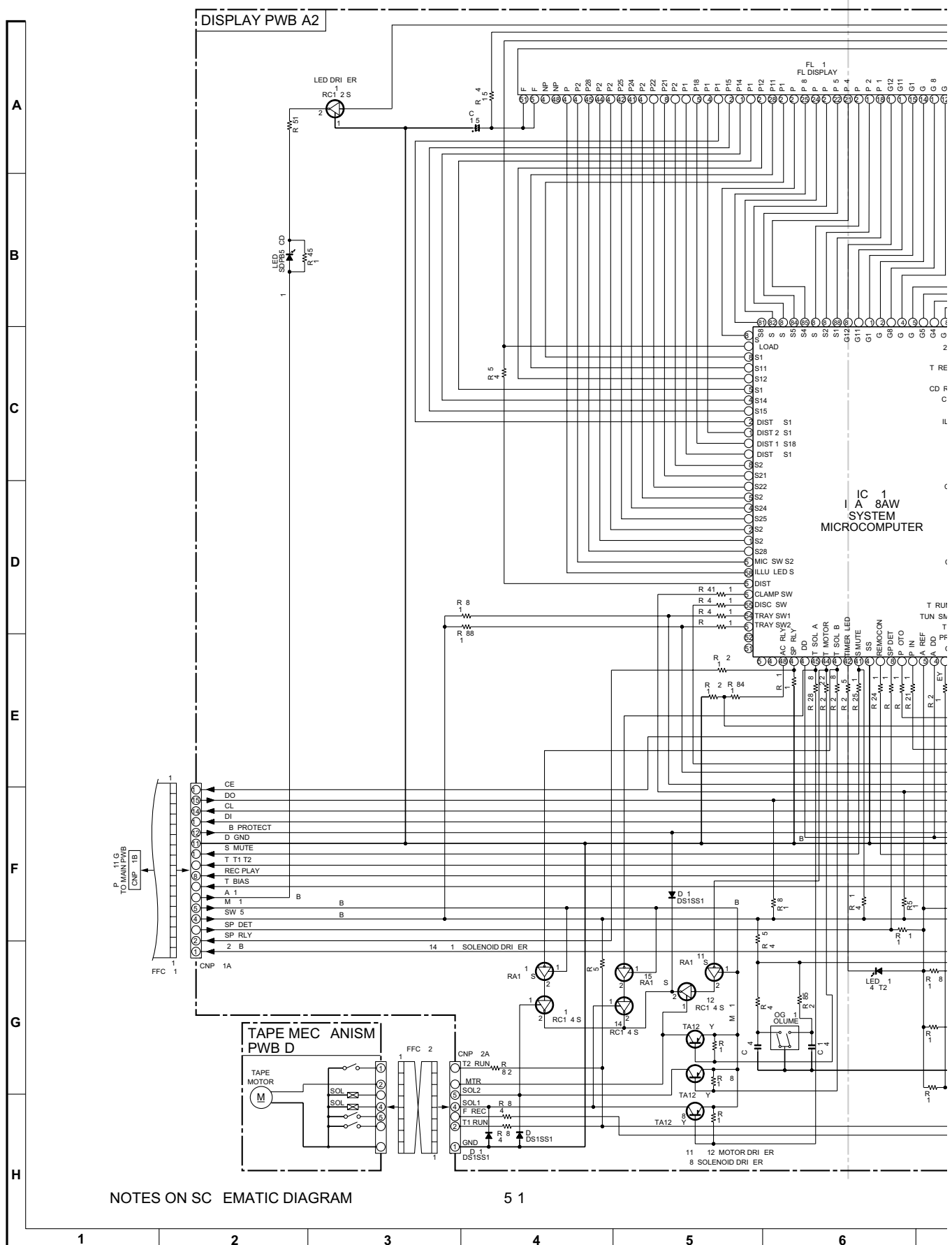


Figure 6-3 SCHEMATIC DIAGRAM (3/10)

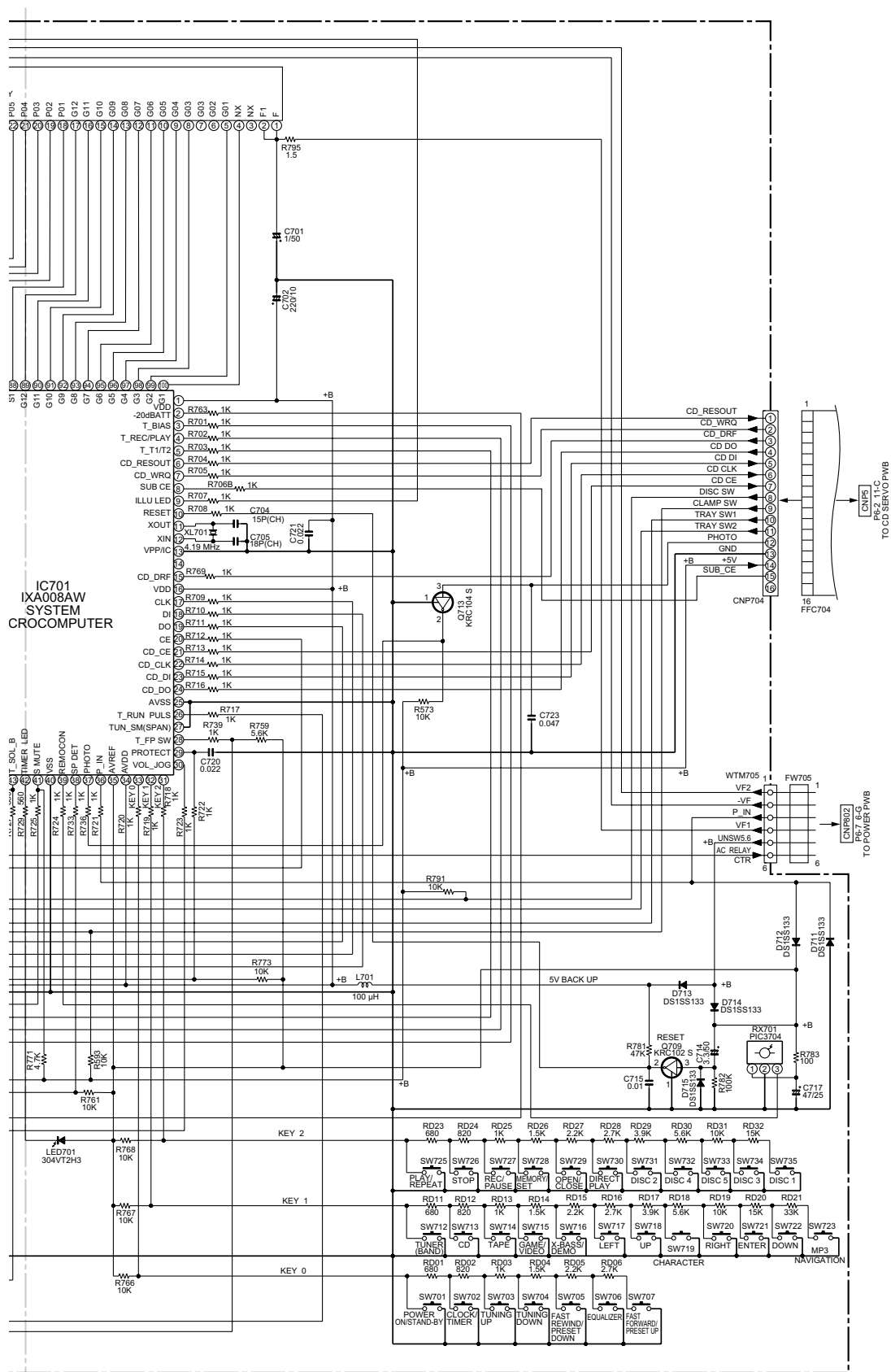


Figure 6-4 SCHEMATIC DIAGRAM (4/10)

6-5

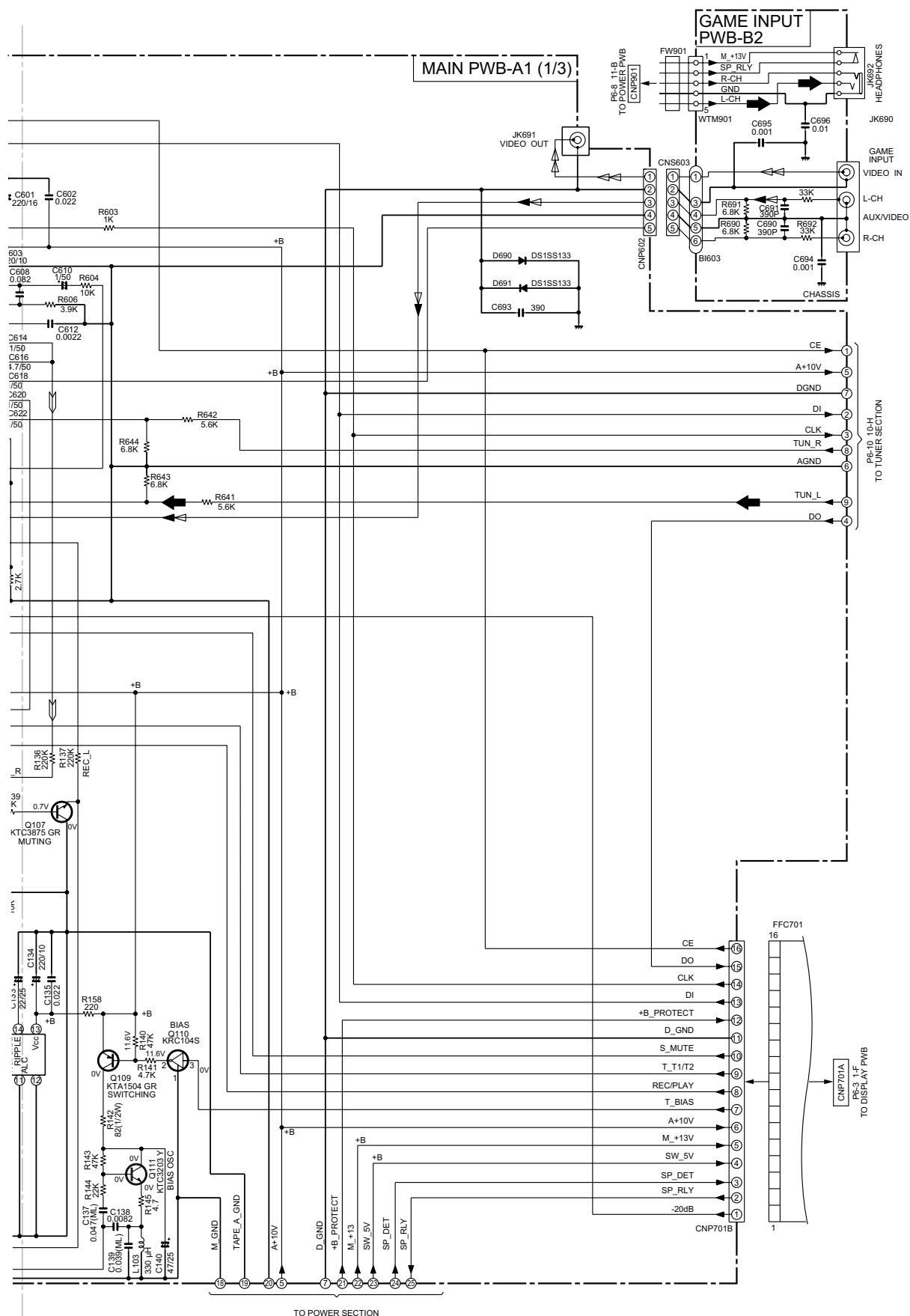


Figure 6-6 SCHEMATIC DIAGRAM (6/10)

6-7

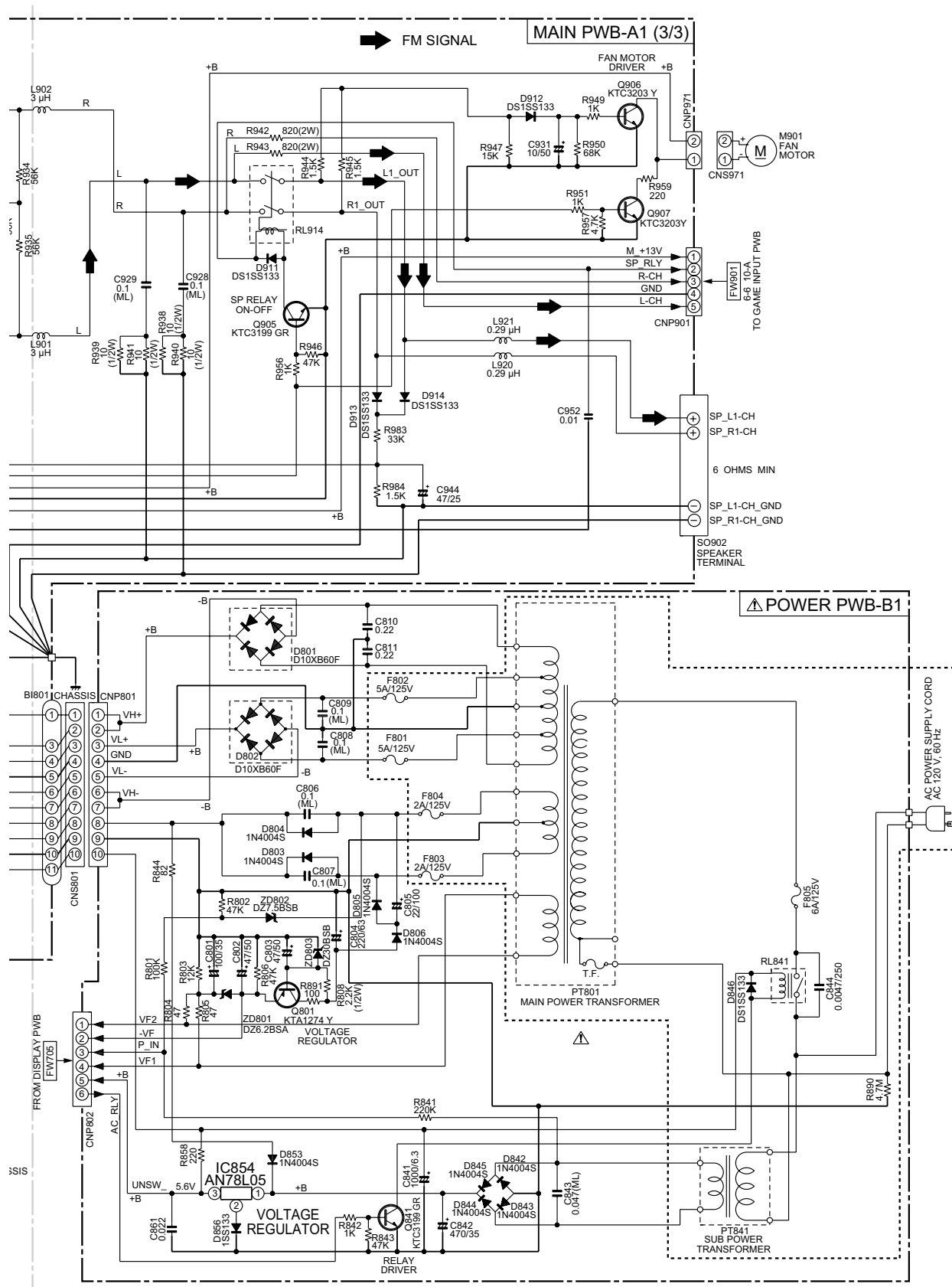


Figure 6-8 SCHEMATIC DIAGRAM (8/10)

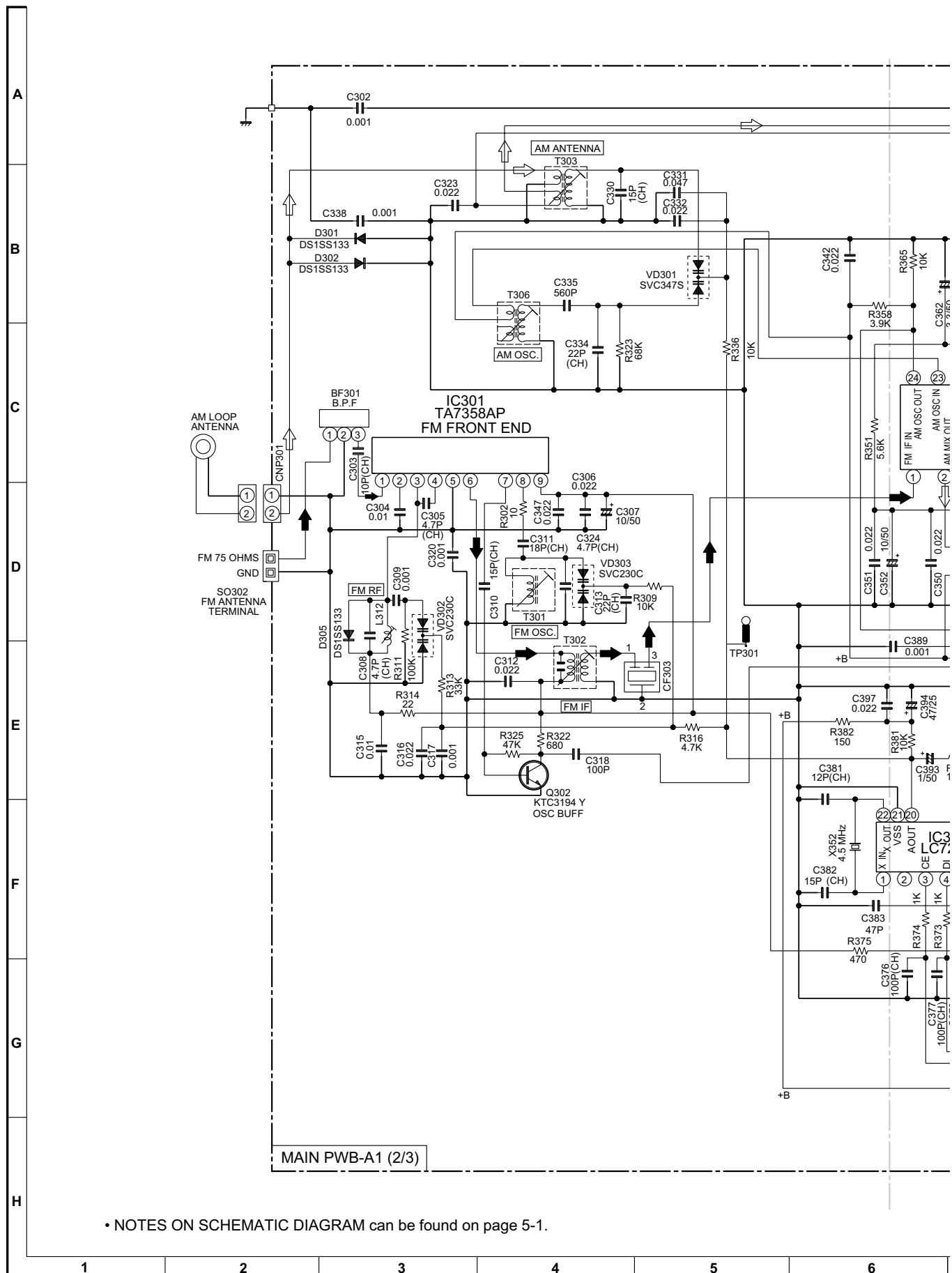


Figure 6-9 SCHEMATIC DIAGRAM (9/10)

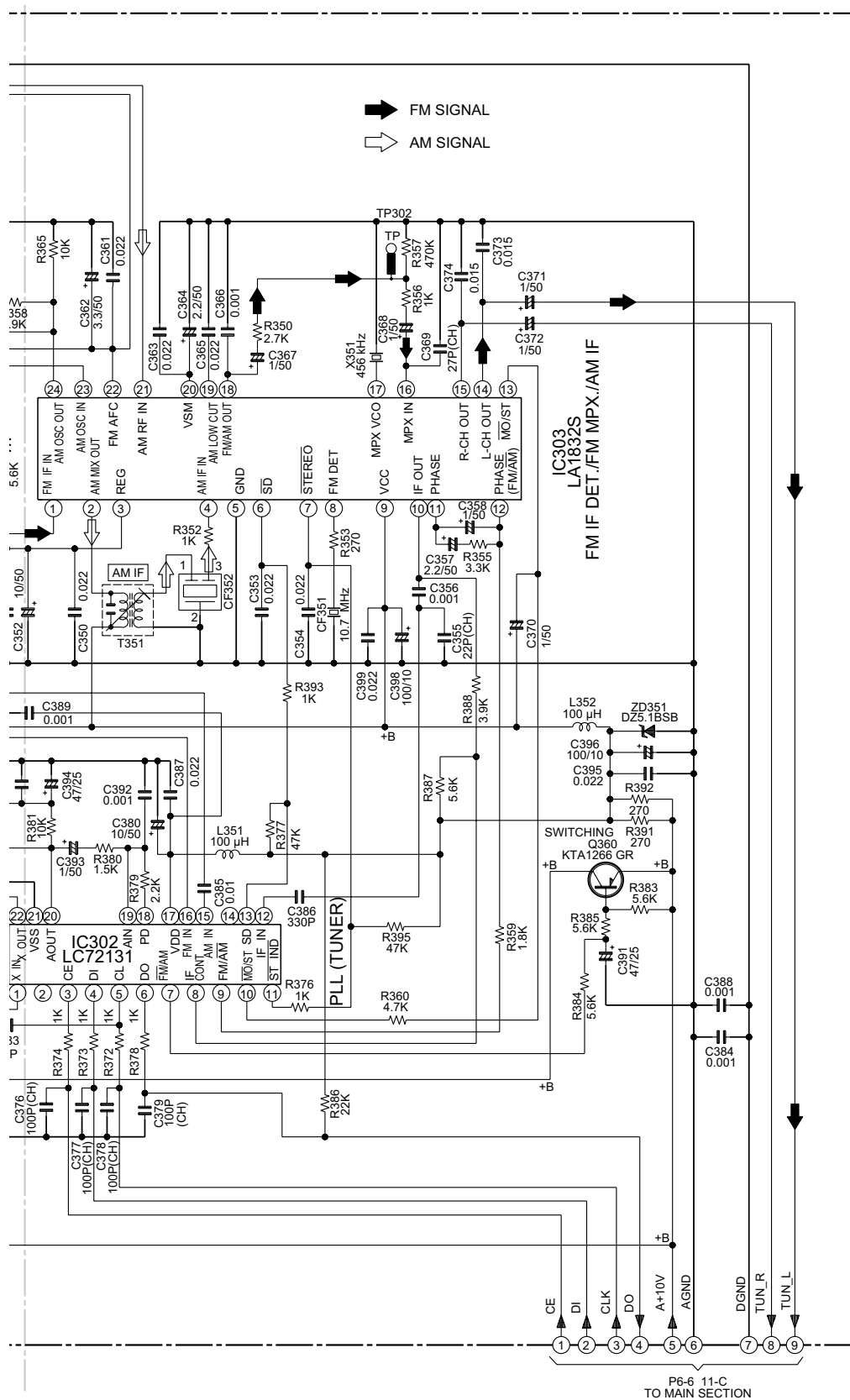


Figure 6-10 SCHEMATIC DIAGRAM (10/10)

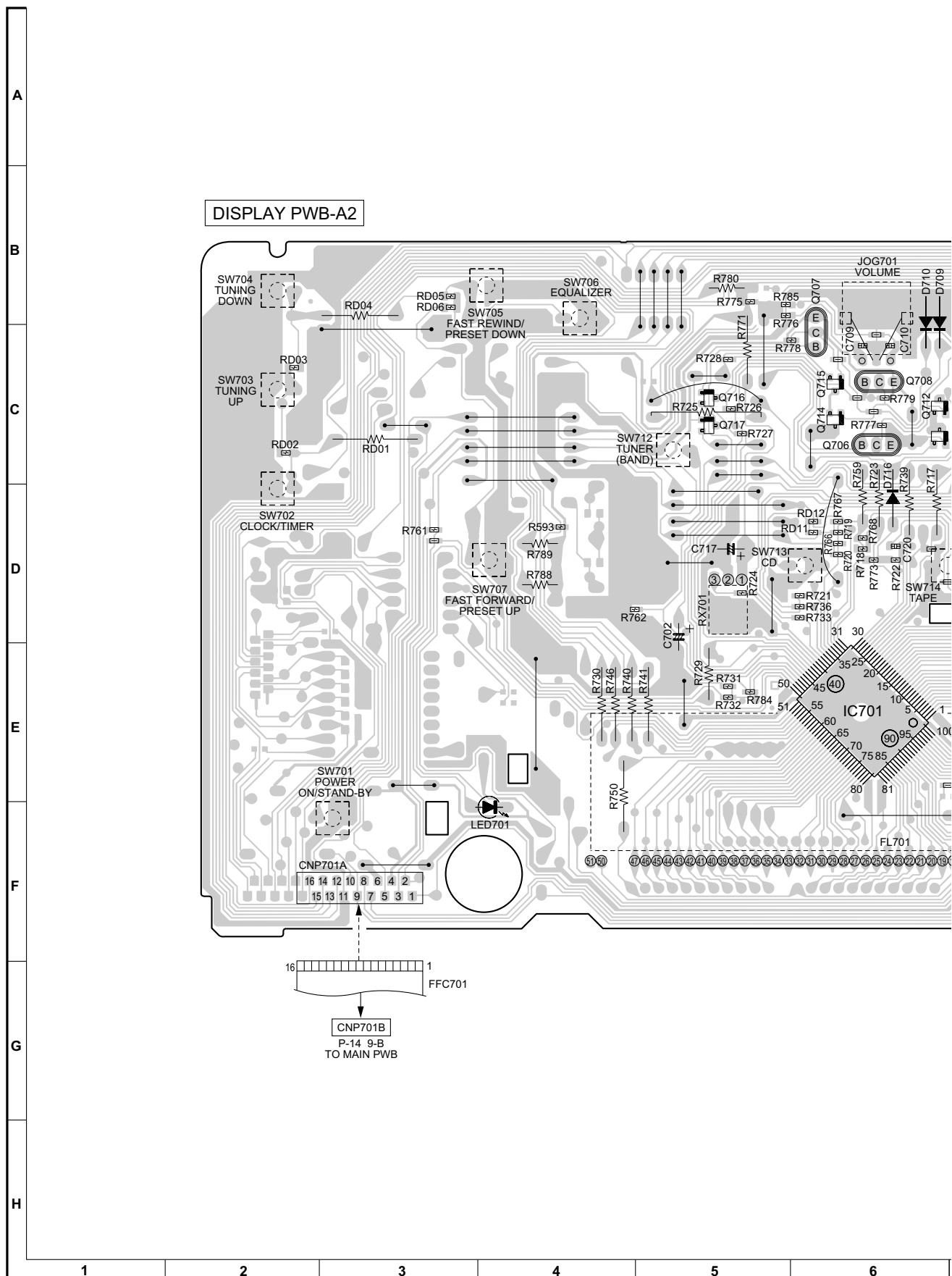
[2] Wiring side of PWB

Figure 6-11 WIRING SIDE OF PWB (1/8)

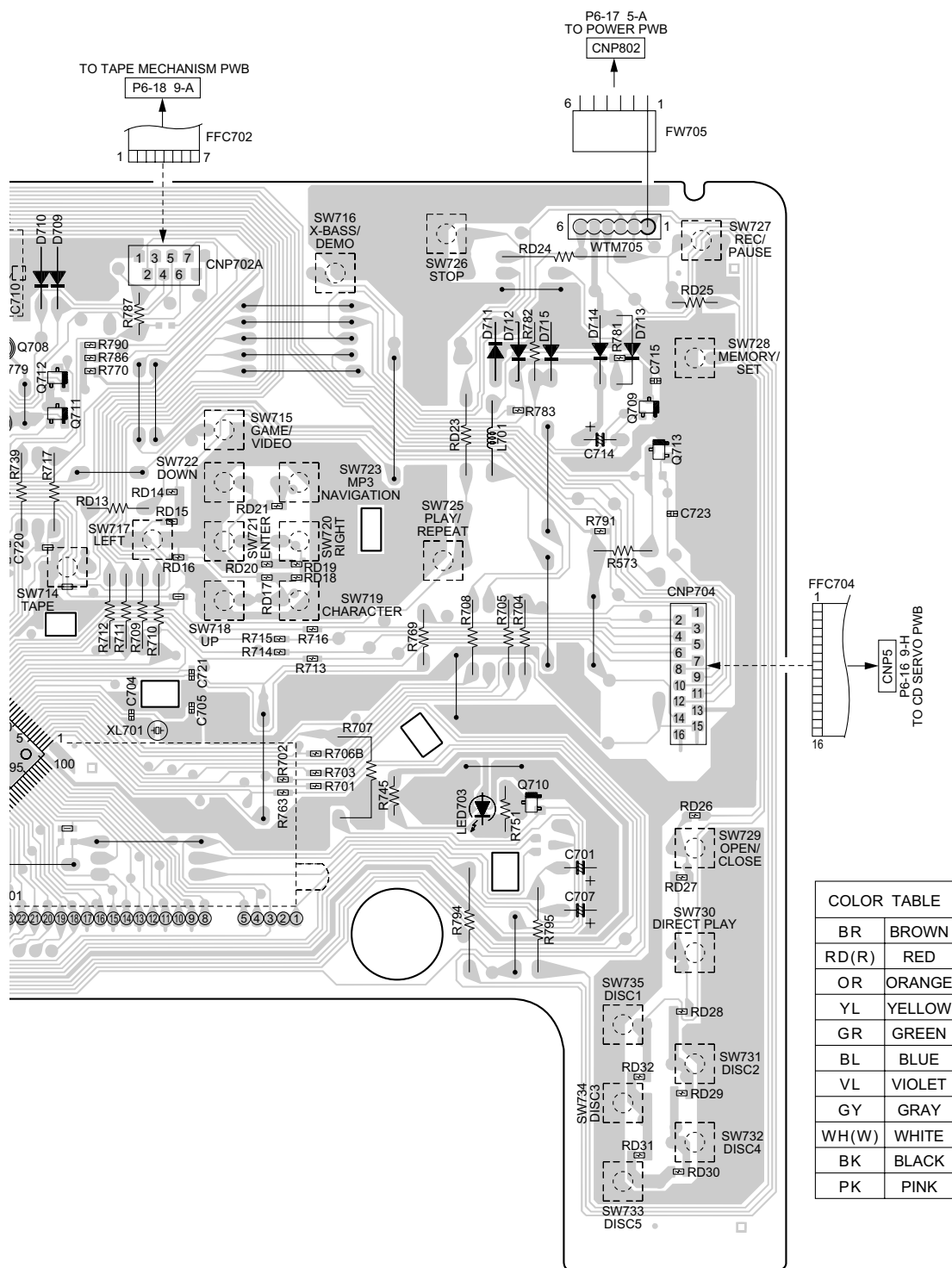


Figure 6-12 WIRING SIDE OF PWB (2/8)

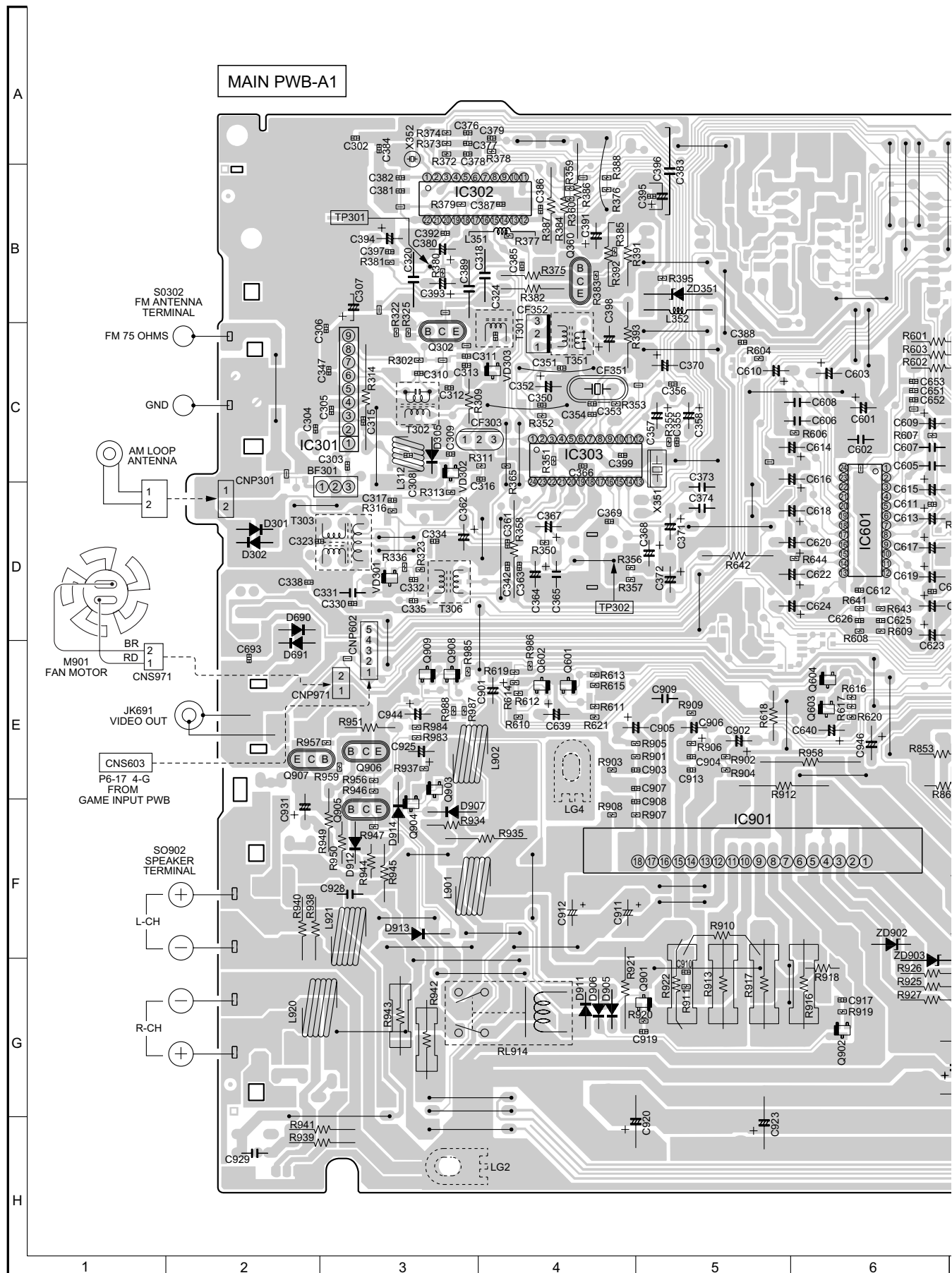


Figure 6-13 WIRING SIDE OF PWB (3/8)

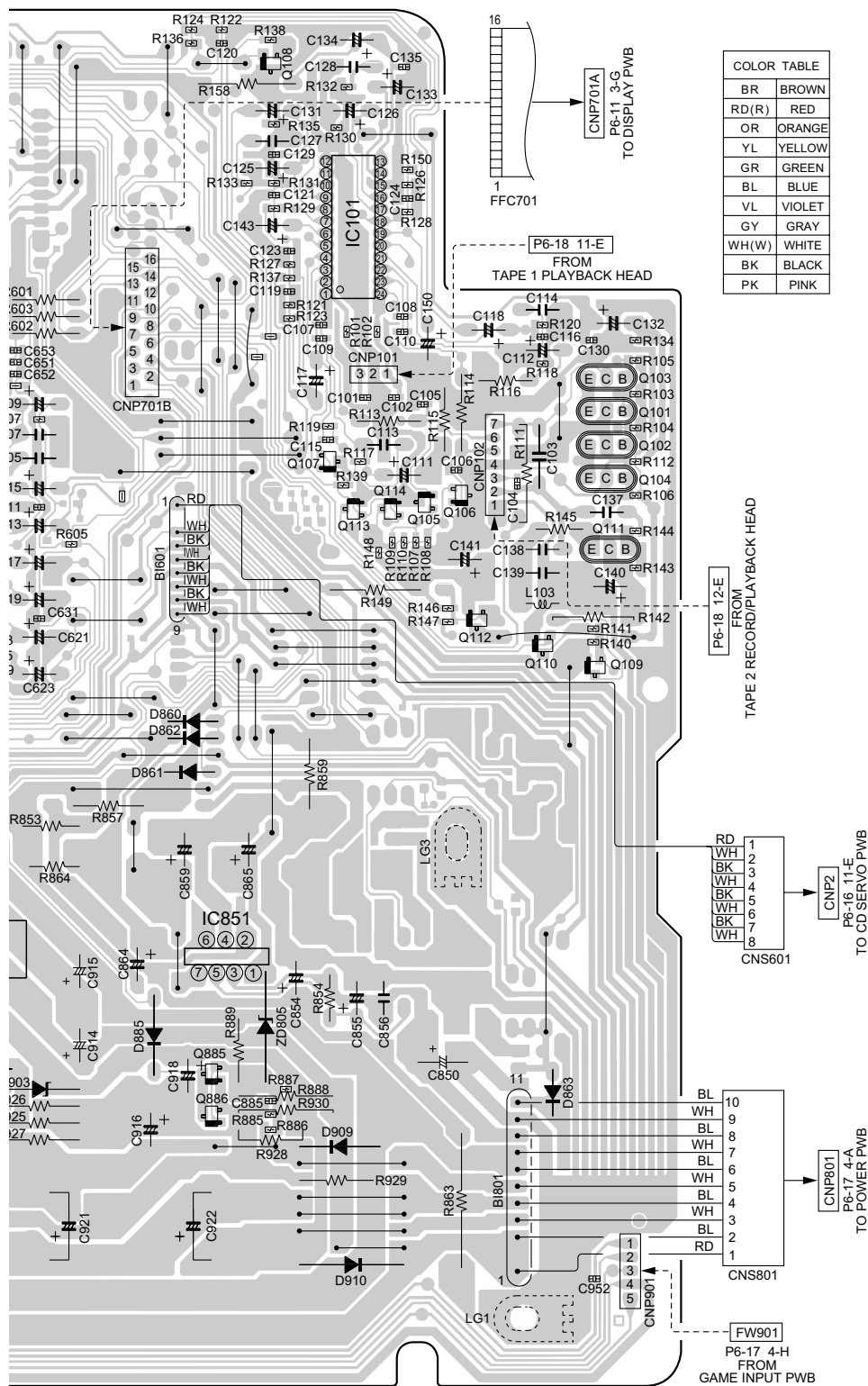


Figure 6-14 WIRING SIDE OF PWB (4/8)

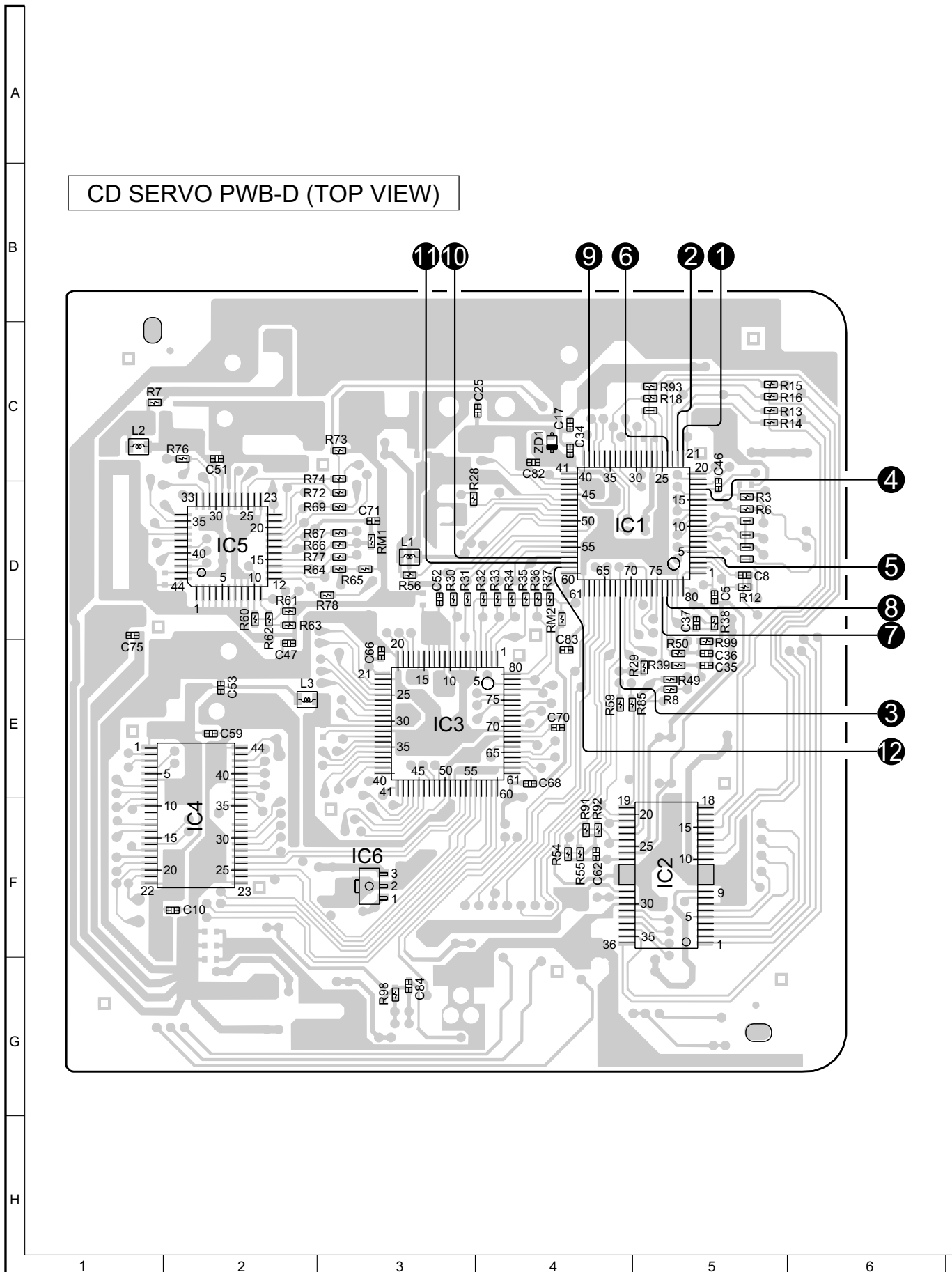


Figure 6-15 WIRING SIDE OF PWB (5/8)

CD SERVO PWB-D (BOTTOM VIEW)

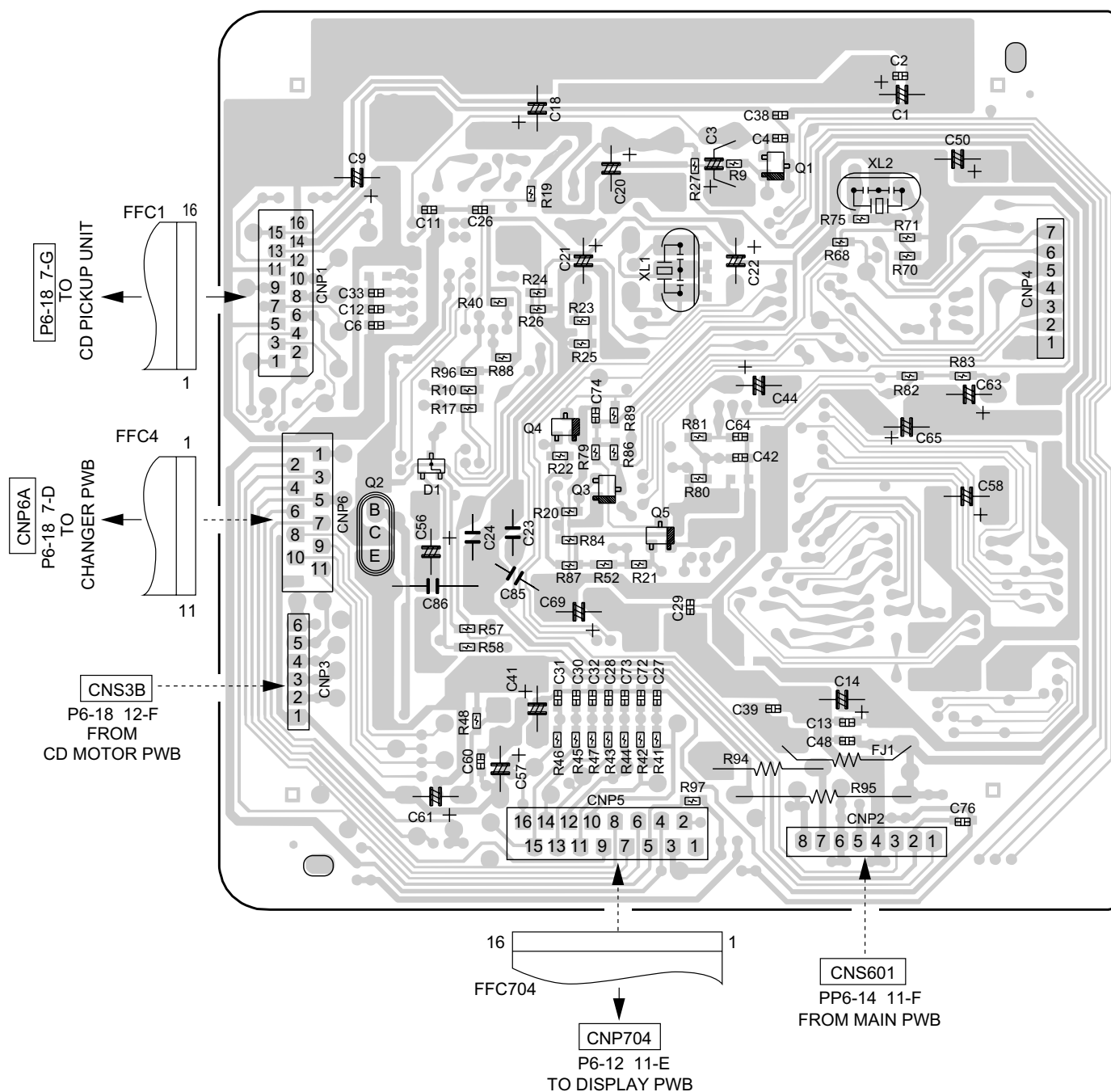


Figure 6-16 WIRING SIDE OF PWB (6/8)

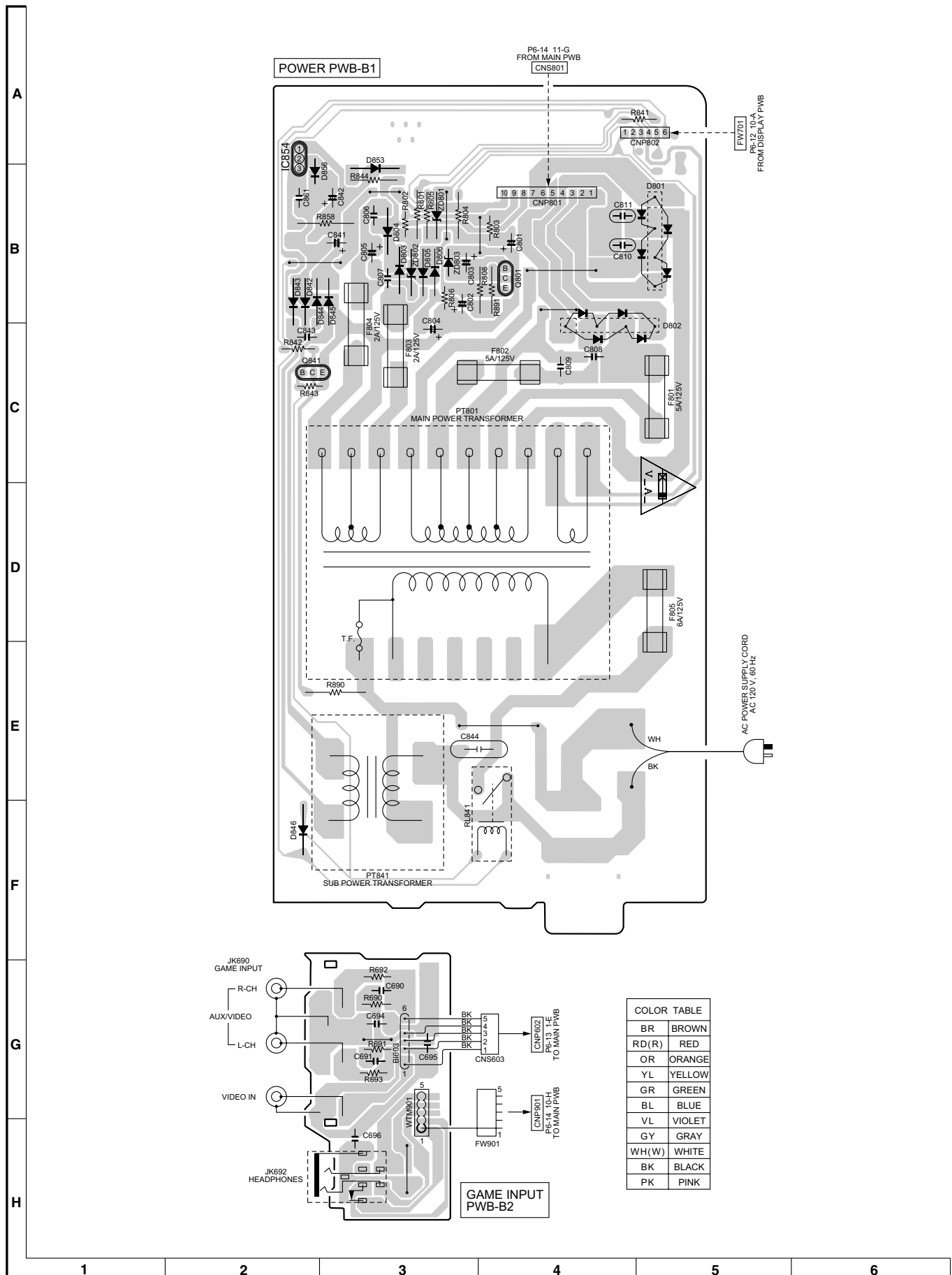


Figure 6-17 WIRING SIDE OF PWB (7/8)

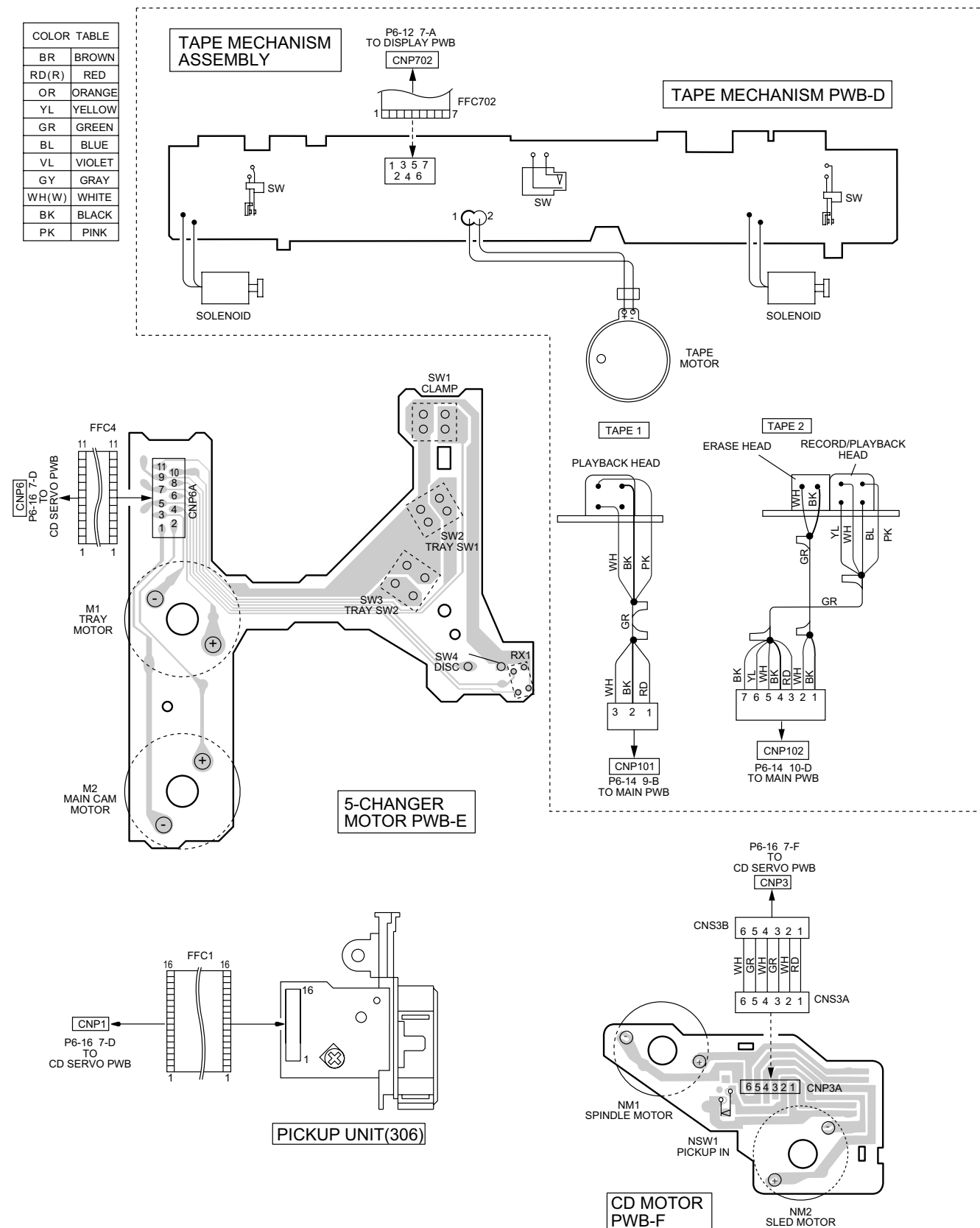


Figure 6-18 WIRING SIDE OF PWB (8/8)

CHAPTER 7. FLOWCHART

[1] Troubleshooting

1. When the CD does not function

The CD section may not operate when the objective lens of the optical pickup is dirty. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the trouble shooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust or other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.

Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.

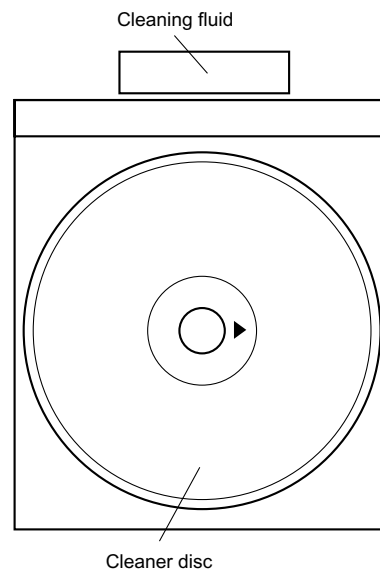
| | | Parts code |
|----|-------------------------------------|---------------|
| 1. | CD optical pickup Lens cleaner disc | UDSKA0004AFZZ |

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it still play continuously, press the stop button.

CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please replace the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice. The CD cleaner disc must not be used on car CD players or on computer CD-ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting this product is prohibited by law.



2. When a CD cannot be played

2.1. "E-CD01" is displayed.

- 1) Check the power to IC1 (LC78648E), the presence of the clock signal (16.9344 MHz) and the status of the RESET terminal (pin 67 on IC1).
- 2) Does the pickup move to the PICKUP-IN Switch (NSW1) position?

If (1) and (2) are OK, check the system microcomputer (especially the communication line with the DSP).

2.2. Pressing the CD operation key is accepted, but playback does not occur.

- 1) Focus-HF system check
- 2) Tracking system check
- 3) Spin system check
- 4) PLL system check
- 5) Others

(1) Focus-HF system check.

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the Tray1 CD Eject Button without inserting a disc, and try starting the playback operation.

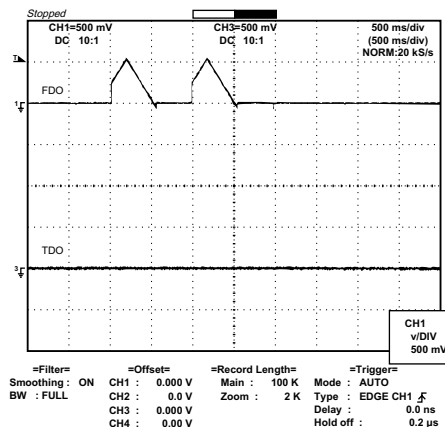


Figure 1

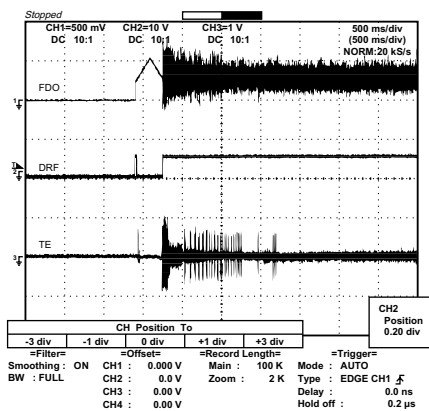
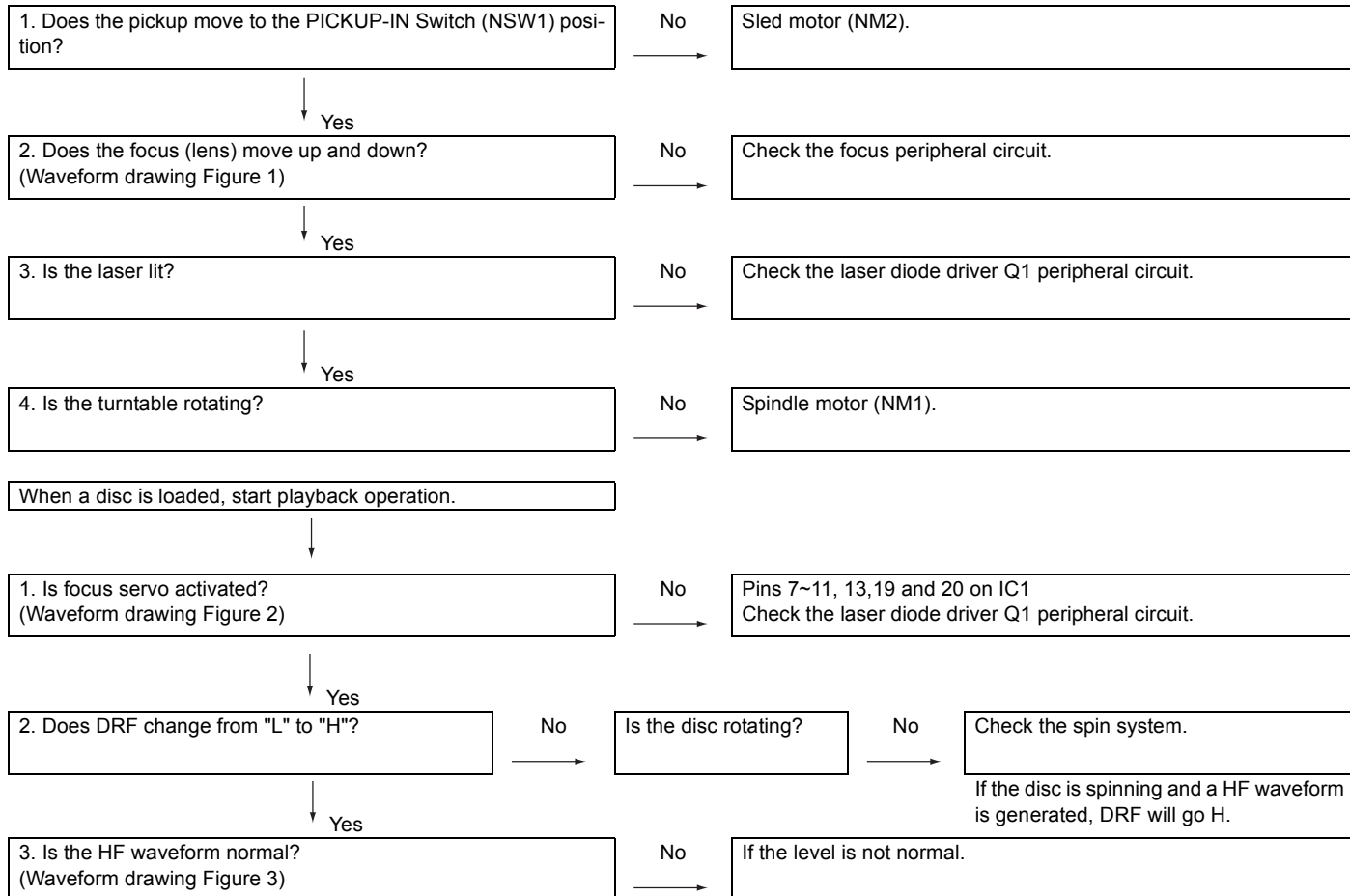


Figure 2

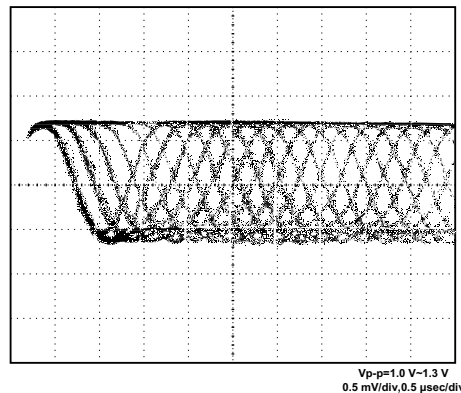


Figure 3

(2) Focus-HF system check.**Check the TE waveform at pin 17 on IC1.**

If the waveform shown in Figure 4 appears and soon after NO DISC appears?

Yes

The tracking servo is not activated.

Check the peripheral circuits at pins 16, 17 and 22 on IC1, and FFC1.

No

"Initialization" is possible, but play is not possible?

Yes

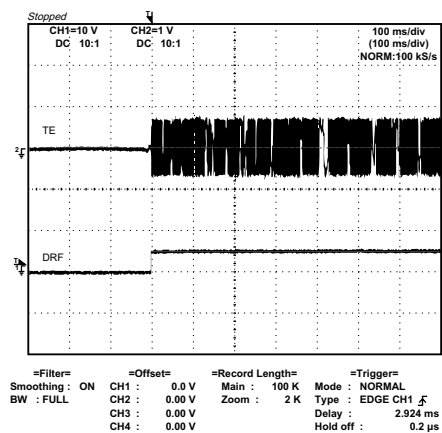
A normal jump operation cannot be completed or the beginning of the track cannot be found.

Check the around pin 22 on IC1.

No

"Initialization" is not possible.

Data cannot be read. Check the VCO-PLL (Pin76~80 on IC1) system.

**Figure 4****(3) Spin system check.**

Press the OPEN/CLOSE switch without inserting a disc, and then try starting the play operation.

1. The turntable rotates a little?
(Waveform drawing Figure 5)

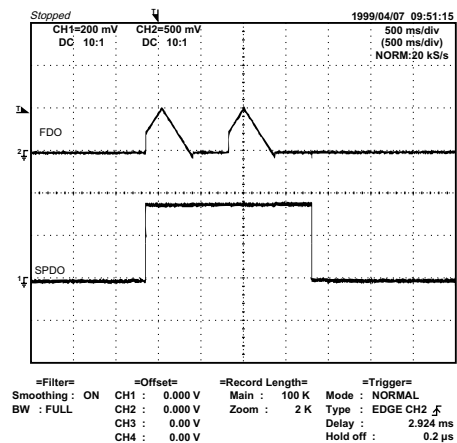
Yes

The spin driver circuit is OK.

No

2. The turntable doesn't rotate.

Check around pin 24 on IC1, pins 3 and 4 on IC2, and CNS3A/CNS3B.

**Figure 5**

(4) PLL system check.

When a disc is loaded, start play operation.



The HF waveform is normal, but the TOC data cannot be read.



Check the PDO waveform. (Figure 6)



Check around pins 76~80 on IC1.

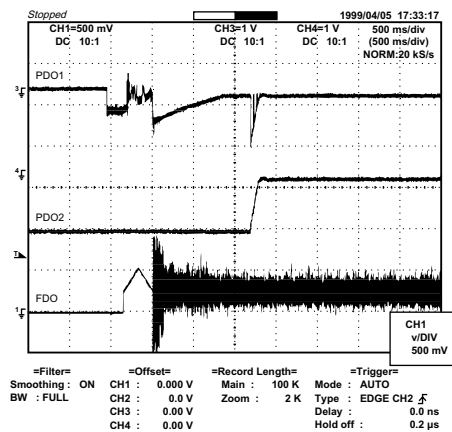


Figure 6

(5) Others.

The HF waveform is normal and the time is displayed normally, but no sound is produced. Or the sound has dropouts.

Is pin 69 (C2F) on IC1 "L"?

No

There are too many error flags on a damaged disc which makes error correction impossible.



Check again using a known good disc.

Yes

1. When playing at normal speed.
Check the peripheral circuit at pin 39 (DOUT) on IC1 and the waveform (Figure 7).



If OK, Check the unit.

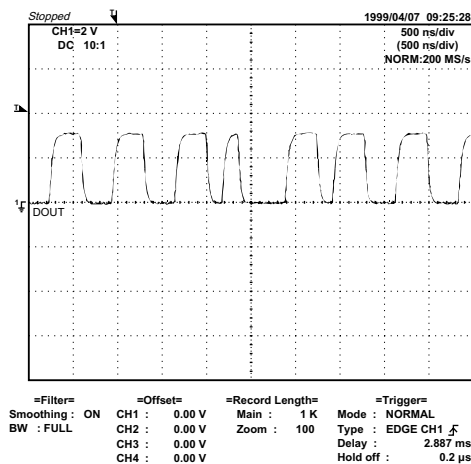


Figure 7

CHAPTER 8. OTHERS

[1] Function table of IC

IC1 VHiLC78648E-1: CD Servo (LC78648E) (1/2)

| Pin No. | Terminal Name | Input/Output | Setting in Reset | Function | |
|---------|---------------|--------------|------------------|---|---|
| 1 | AVDD1 | Output | — | Analog power supply pin 1. | |
| 2 | SLCO | Output | — | slice level control. | Slice level Control output pin. |
| 3 | EFMIN | Input | — | | RF signal input pin. |
| 4 | RF | Output | — | RF signal Output pin. | |
| 5 | LPF | Output | — | RF signal DC level detection LPF capacitor connection pin. | |
| 6 | JITTC | Input | — | Jitter detection capacitor connection pin. | |
| 7 | AIN | Input | — | A signal input pin. | |
| 8 | CIN | Input | — | C signal input pin. | |
| 9 | BIN | Input | — | B signal input pin. | |
| 10 | DIN | Input | — | D signal input pin. | |
| 11 | FEC | Output | — | FE signal LPF capacitor connection pin. | |
| 12* | PHLPF/RFMON | Output | ZHI | Reference supply setting terminal. | |
| 13 | VREF | Output | AVDD1/2 | VREF voltage output pin. | |
| 14 | EIN | Input | — | E signal input pin. | |
| 15 | FIN | Input | — | F signal input pin. | |
| 16 | TEC | Output | — | TE signal LPF capacitor connection pin. | |
| 17 | TE | Output | — | TE signal output pin. | |
| 18 | TEIN | Input | — | TES signal generation TE signal input pin | |
| 19 | LDD | Output | — | Laser power control signal output pin. | |
| 20 | LDS | Input | — | Laser power control signal input pin. | |
| 21 | FDO | Output | ADAVDD/2 | Focus control output pin. D/A output. | |
| 22 | TDO | Output | ADAVDD/2 | Tracking control output pin. D/A output. | |
| 23 | SLDO | Output | ADAVDD/2 | Thread control output pin. D/A output. | |
| 24 | SPDO | Output | ADAVDD/2 | Spindle control output pin. D/A output. | |
| 25 | AVSS2 | — | — | Analog GND pin 2. Must always be connected to 0 V. | |
| 26 | AVDD2 | — | — | Analog power supply pin 2. | |
| 27 | DVDD | — | — | Digital power supply pin. | |
| 28 | DVSS | — | — | Digital GND pin 2. Must always be connected to 0 V. | |
| 29* | VPB | Output | H | Rough servo/phase control automatic switching monitor output pin.“H” for rough servo and “L” for phase servo. | |
| 30* | DEFECT | Output | L | Defect signal output pin. | |
| 31* | FSEQ | Output | L | Synchronization signal detection output pin. Outputs a high level when the Synchronization signal detection from the EFM signal and the internally generated Synchronization signal agree. | |
| 32 | EFLG | Output | L | C1, C2 error correction monitor pin | |
| 33* | FSX | Output | L | 7.35 kHz Synchronization signal output pin. CLV playback mode. | |
| 34 | CONT1 | Input/Output | Input | General purpose I/O pin 1. | Controlled by command from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0 V, or set up as output pin ports and left open. |
| 35 | CONT2 | Input/Output | Input | General purpose I/O pin 2. | |
| 36 | CONT3 | Input/Output | Input | General purpose I/O pin 3. | |
| 37* | MONI1 | Input/Output | Input | External deiemphasis setting pin, IInternal signal monitor pin 1. Controlled by microprocessor. | |
| 38* | MONI2 | Output | L | Internal signal monitor pin 2. | |
| 39* | DOUT | Output | L | Digital OUT output Pin. (EIAJ format) | |
| 40 | TEST | Input | L | Test input pin. Must always be connected to 0 V. | |
| 41 | LVDD | — | — | Left channel D/A converter | L channel Power supply pin. |
| 42 | LCHO | Output | LVDD/2 | | L channel output supply pin. |
| 43 | LRVSS | — | — | | LR channel GND pin. Must always be connected to 0 V. |

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC1 VHiLC78648E-1: CD Servo (LC78648E) (2/2)

| Pin No. | Terminal Name | Input/Output | Setting in Reset | Function | |
|---------|---------------|--------------|------------------|--|---|
| 44 | RCHO | Output | RVDD /2 | Right channel D/A converter | R channel Power supply pin. |
| 45 | RVDD | — | — | | R channel output supply pin. |
| 46 | XVSS | — | — | Digital GND pin. Must always be connected to 0 V | |
| 47 | XOUT | Output | Oscillator | Crystal oscillator | Power supply for crystal oscillator. |
| 48 | XIN | Input | Oscillator | | Connected for a 16.9344 MHz crystal oscillator pin. |
| 49 | XVDD | — | — | Digital power supply pin. Must always be connected to 0 V | |
| 50 | IOMODE | Input | — | CONT4 to 6. MONI3~5, DRF, WRQB pin output mode switching input pin. "L" setting: Normal output "H" setting: Nch open drain output | |
| 51 | F16MIN | Input | — | DF. DAC external clock input pin. | |
| 52* | OUT1 | Output | L | General-purpose output pin 1. | |
| 53 | 16MOUT | Output | CLK Output | 16.9344 MHz output port. | |
| 54 | ASLRCK | Input | — | Anti-shock | Left/Right clock input pin. (Must be connect to 0 V when unused.) |
| 55 | ASDACK | Input | — | | Bit clock input pin. (Must be connect to 0 V when unused.) |
| 56 | ASDFIN | Input | — | | Left/Right channel data input pin. (Must be connect to 0 V when unused.) |
| 57 | LRSK | Output | L | Digital data output | Left/Right channel data output pin. |
| 58 | DATAACK | Output | L | | Bit clock output pin. |
| 59 | DATA | Output | L | | Left/Right clock output pin. |
| 60 | DVDD | — | — | Digital power supply pin. | |
| 61 | DVSS | — | — | Digital GND pin 2. Must always be connected to 0V. | |
| 62 | CE | Input | — | Microcom-puter Interface | Chip enable signal input pin. |
| 63 | CL | Input | — | | Data transfer clock input pin. |
| 64 | DI | Input | — | | Data output pin. |
| 65 | DO | Output | (H) | | Data output pin. (Try state output.) |
| 66 | WRQB | Output | L | Interruption signal output pin. | |
| 67 | RESB | Input | — | Reset input pin for LSI. This pin must be set LOW briefly after power is first applied. | |
| 68 | DRF | Output | L | Focus ON detection pin. | |
| 69 | C2F/SBCK | Input/Output | Input | Error flag monitor pin, or sub code read clock input pin. | Controlled by commands from the microprocessor. |
| 70 | CONT6/SBCK | Input/Output | Input | General-purpose I/O pin 6, or sub code read clock input pin. | Controlled by commands from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0 V, or set up as output pin ports and left open. |
| 71* | MONI5 | Output | L | Internal signal monitor pin 5. | |
| 72* | MONI4 | Output | L | Internal signal monitor pin 4. | |
| 73 | MONI3 | Output | L | Internal signal monitor pin 3. | |
| 74 | CONT5 | Input/Output | Input | General purpose I/O pin 5. | Controlled by command from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0 V, or set up as output pin ports and left open when unused. |
| 75 | CONT4 | Input/Output | Input | General purpose I/O pin 4. | |
| 76 | PDO1 | Output | — | PLL | Phase comparison output pin 1 to control built-in VCO. |
| 77 | PDO2 | Output | — | | Phase comparison output pin 2 to control built-in VCO. |
| 78 | PCKIST | Input | — | | Resistor connection pin to set current for PDO1 and 02 outputs. |
| 79 | VVSS | — | — | | Built-in VCO GND pin. Must always be connected to 0 V. |
| 80 | VVDD | — | — | | Built-in VCO power supply pin. |

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

The same potential must be supplied to all power supply pins, i, e., AVDD1, AVDD2, XVDD, DVDD, LVDD and RVDD)

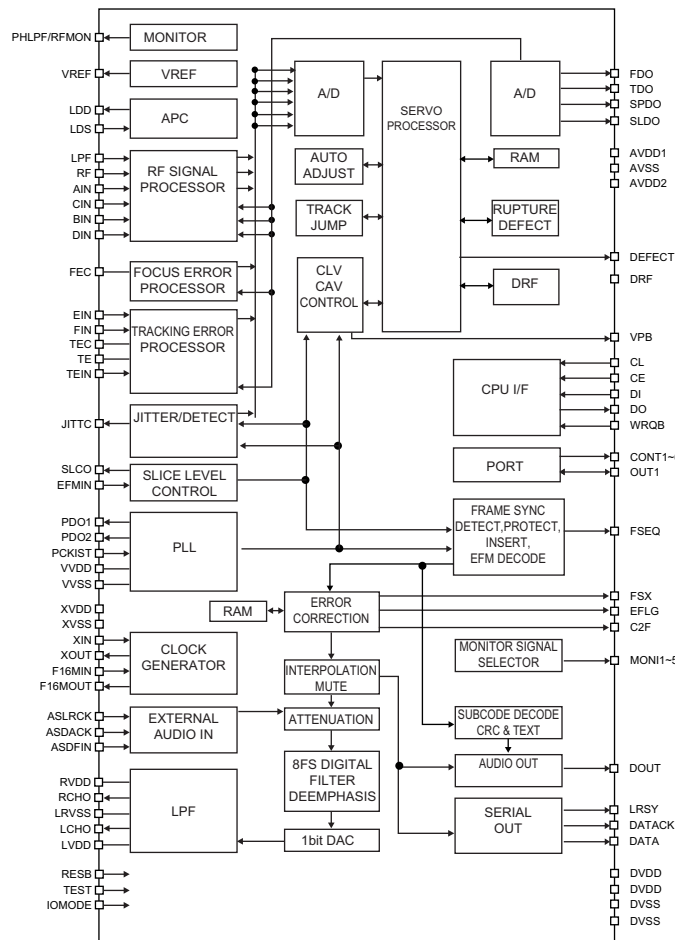
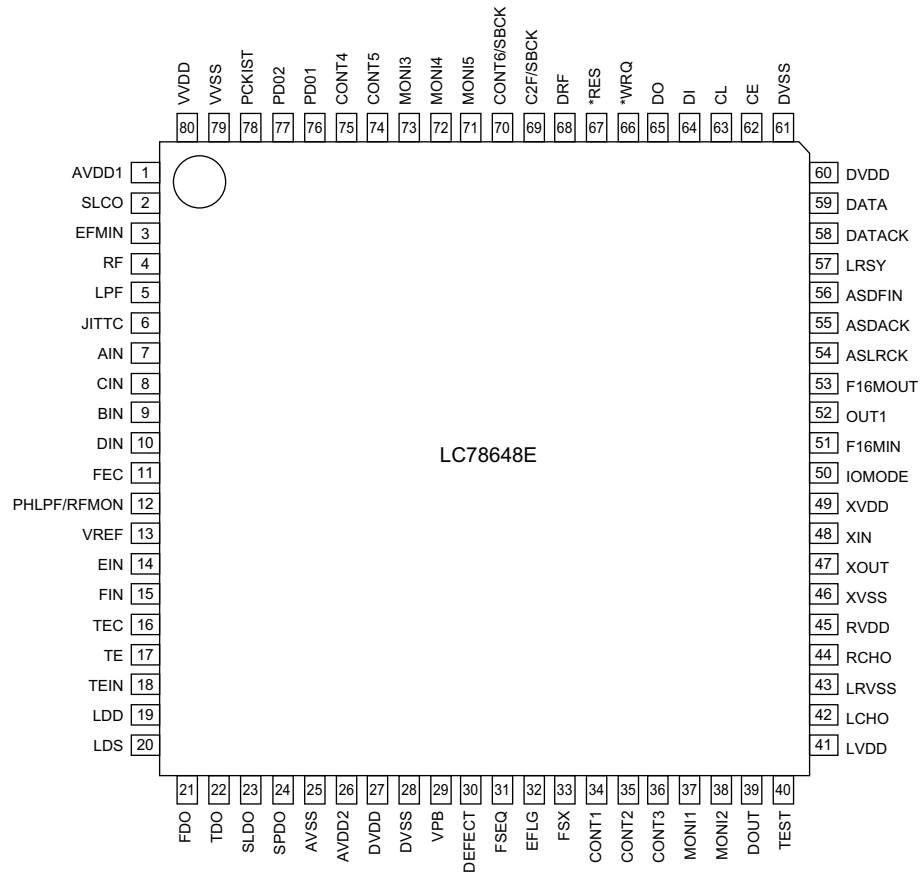


Figure 8-3 BLOCK DIAGRAM OF IC

IC2 VHILA6261/-1: Focus/Tracking/Spin/Sled Driver (LA6261)

| Pin No. | Terminal Name | Function |
|---------|---------------|--|
| 1 | VO3+ | BTL Output pin (+) for channel 3. |
| 2 | VO3- | BTL Output pin (-) for channel 3. |
| 3 | VO2+ | BTL Output pin (+) for channel 2. |
| 4 | VO2- | BTL Output pin (-) for channel 2. |
| 5 | VO1+ | BTL Output pin (+) for channel 1. |
| 6 | VO1- | BTL Output pin (-) for channel 1. |
| 7 | PGND1 | Power GND for channels 1,2,3 and 4 (BTL). |
| 8 | REGIN | Regulator pin (External PNP base). |
| 9 | PVCC1 | Power for channels 1,2,3 and 4 (BTL). (SVCC short-circuited) |
| 10 | REGOUT | Regulator pin (External PNP collector). |
| 11 | VIN1 | Input pin for channel 1 |
| 12* | VIN1G | Input pin for channel 1 (for gain control) |
| 13 | VIN2 | Input pin for channel 2 |
| 14* | VIN2G | Input pin for channel 2 (for gain control) |
| 15 | VIN3 | Input pin for channel 3 |
| 16* | VIN3G | Input pin for channel 3 (for gain control) |
| 17 | VIN4 | Input pin for channel 4 |
| 18 | VIN4G | Input pin for channel 4 (for gain control) |
| 19 | FWD5 | CH5 Output change pin (FWD). Logic input for bridge. |
| 20 | REV5 | CH5 Output change pin (REV). Logic input for bridge. |
| 21 | VCONT5 | Input pin for CH5 output voltage control |
| 22 | FWD6 | CH6 Output change pin (FWD). Logic input for bridge. |
| 23 | REV6 | CH6 Output change pin (REV). Logic input for bridge. |
| 24 | VCONT6 | Input pin for CH5 output voltage control. |
| 25 | VREFIN | Reference voltage input pin. |
| 26 | SGND | Signal system GND |
| 27 | SVCC | Signal system power (PVCC1 short - circuited) |
| 28 | PVCC2 | Power for channel 5 and 6 (H bridge). |
| 29 | MUTE | Input pin for BTL mute. |
| 30 | PGND2 | Power GND for channels 5 and 6 (H bridge). |
| 31 | VO6+ | H bridge Output pin (+) for channel 6. |
| 32 | VO6- | H bridge Output pin (-) for channel 6. |
| 33 | VO5+ | H bridge Output pin (+) for channel 5. |
| 34 | VO5- | H bridge Output pin (-) for channel 5. |
| 35 | VO4+ | BTL Output pin (+) for channel 4. |
| 36 | VO4- | BTL Output pin (-) for channel 4. |

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

- * Set power system GND to the minimum potential together with SGND
- * Short-circuit three pins of power system SVSS and PVCC1 externally before use.

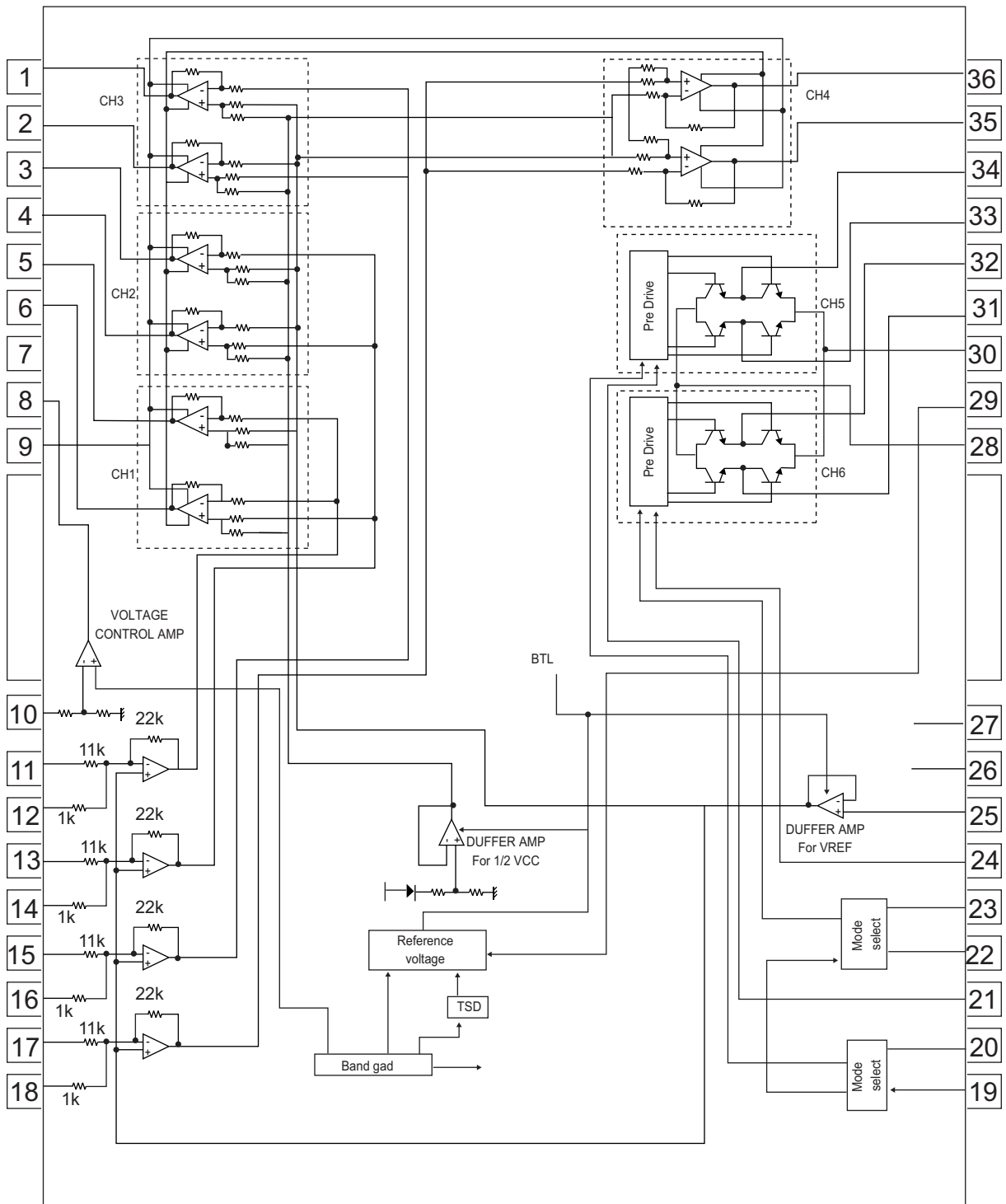


Figure 8-5 BLOCK DIAGRAM OF IC

IC601 VHLC75341/-1: Audio Processor (LC75341)

| Pin No. | Terminal Name | Function |
|---------|---------------|---|
| 1 | DI | Serial data and clock input pin for control. |
| 2 | CE | Chip enable pin. Data written into an internal latch in a timing of "H" to "L". Each analog switch is activated. Data transfer enabled at "H" level. |
| 3 | VSS | Ground pin. |
| 4 | LOUT | Bass band filter comprising capacitor and resistor connection pin and bass/treble output pin. |
| 5 | LBASS | Bass band filter comprising capacitor and resistor connection pin. |
| 6 | LTRE | Treble band filter comprising capacitor and resistor connection pin. |
| 7 | LIN | Volume + equalizer output pin. |
| 8 | LSEL0 | Input selector output pin. |
| 9-12 | L4-1 | Input signal pin. |

| Pin No. | Terminal Name | Function |
|---------|---------------|---|
| 13-16 | R1-4 | Input signal pin. |
| 17 | RSEL0 | Input selector output pin. |
| 18 | RIN | Volume + equalizer output pin |
| 19 | RTRE | Treble band filter comprising capacitor and resistor connection pin. |
| 20 | RBASS | Bass band filter comprising capacitor and resistor connection pin. |
| 21 | ROUT | Bass band filter comprising capacitor and resistor connection pin and bass/ treble output pin. |
| 22 | VREF | 0.5x VDD voltage generation block for analog ground. Capacitor of several 10 μ F to be connected between VREF and AWSS (VSS) as a counter-measure against power ripple. |
| 23 | VDD | Supply pin |
| 24 | CLK | Serial data and clock input pin for control. |

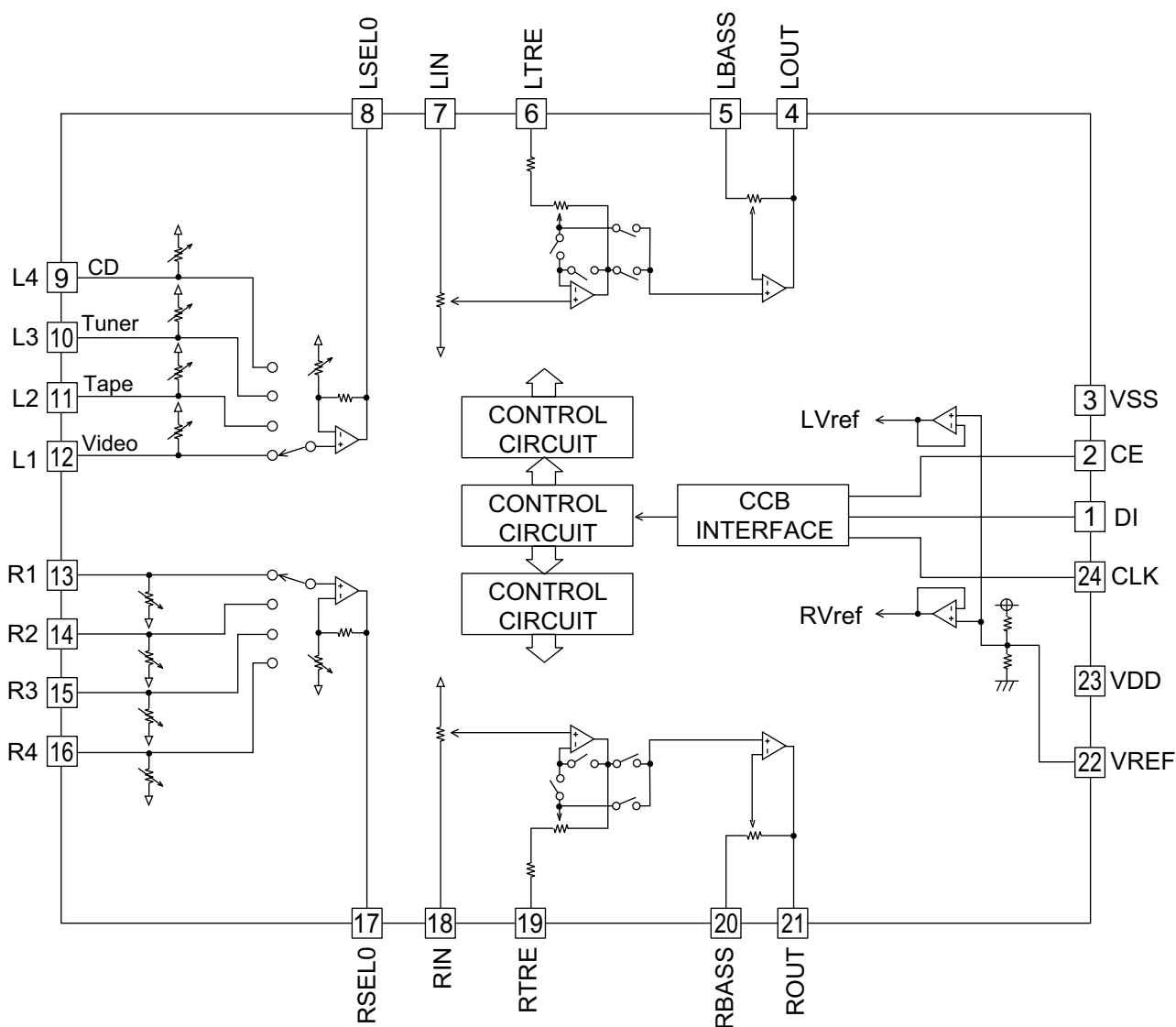


Figure 8-6 BLOCK DIAGRAM OF IC

CD-MPS900/CD-MPS99

IC701 RH-iXA008AWZZ: System Microcomputer (IXA008AW) (1/2)

| Pin No. | Port Name | Terminal Name | Input/Output | Function |
|---------|-------------|---------------|--------------|--------------------------------------|
| 1 | VDD | VDD | Input | (+) Power supply 5 V. |
| 2 | P37 | -20dBATT | Output | -20dB Attenuator. |
| 3 | P36 | T BIAS | Output | Tape record bias control. |
| 4 | P35 | T_REC/PLAY | Output | Tape REC/PLAY control. |
| 5 | P34 | T_T1/T2 | Output | Tape T1/T2 Control. |
| 6 | P33 | CD RESOUT | Output | CD Reset. |
| 7 | P32 | CD_WRQ | Input | CD WRQ input. |
| 8 | P31 | SUB CE | Output | MP3 Sub-micom CE. |
| 9 | P30 | ILLU LED | Output | FL Edge light control. |
| 10 | RESET | RESET | Input | Reset Input. |
| 11 | X2 | XOUT | Output | Main clock output 4.19 MHz. |
| 12 | X1 | XIN | Input | Main clock input 4.19 MHz. |
| 13 | IC(VPP) | VPP | — | GND |
| 14* | XT2 | NO USE | — | Open |
| 15 | P04 | CD_DRF | Input | CD DRF detect. |
| 16 | VDD | VDD | Input | (+) Power supply 5 V. |
| 17 | P27 | CLK | Output | Clock output. |
| 18 | P26 | DI | Output | Data output. |
| 19 | P25 | DO | Input | Data input. |
| 20 | P24 | CE | Output | CE Output. |
| 21 | P23 | CD CE | Output | CD Chip enable. |
| 22 | P22 | CD CLK | Output | CD Clock. |
| 23 | P21 | CD DI | Output | CD Data output. |
| 24 | P20 | CD DO | Input | CD Data input. |
| 25 | AVSS | AVSS | — | Analog ground. |
| 26 | ANI7 | T RUN PULS | Input | Tape T1/T2 Run Pulse detect. |
| 27 | ANI6 | TUN SM | Input | Tuner signal meter. |
| 28 | ANI5 | T_FP SW | Input | Tape Fool Proof A & B SW. |
| 29 | ANI4 | PROTECT | Input | Power abnormal detect. |
| 30 | ANI3 | VOL JOG | Input | Volume jog input. |
| 31-33 | ANI2-ANI0 | KEY 2-KEY 0 | Input | Key input. |
| 34 | AVDD | AVDD | Input | Analog power supply 5 V. |
| 35 | AVREF | AVREF | Input | Analog reference voltage 5 V. |
| 36 | INTP3 | P_IN | Input | Power failure detect. |
| 37 | P02 | PHOTO | Input | 5-Changer Photo SW. |
| 38 | INTP1 | SP DET | Input | Speaker abnormal detect. |
| 39 | INTP0 | REMOCON | Input | Remocon input. |
| 40 | VSS | VSS | — | Ground voltage. |
| 41 | P74 | S MUTE | Output | System mute control. |
| 42 | P73 | TIMER LED | Output | Timer LED control. |
| 43 | P72 | T_SOL B | Output | Tape 2 solenoid control. |
| 44 | P71 | T_MOTOR | Output | Tape motor control. |
| 45 | P70 | T_SOL A | Output | Tape 1 solenoid control. |
| 46 | VDD | VDD | Input | (+) Power supply 5 V. |
| 47 | P127 | SP RLY | Output | Speaker relay control. |
| 48 | P126 | AC RLY | Output | AC relay control. |
| 49* | P125 | RDS RST | Output | RDS reset. |
| 50* | P124 | RDS READY | Input | RDS ready. |
| 51* | P123 | RDS RDDA | Input | RDS data. |
| 52* | P122 | RDS RDCL | Output | RDS clock. |
| 53 | P121 | TRAY SW2 | Input | 5-Changer Tray SW2. |
| 54 | P120 | TRAY SW1 | Input | 5-Changer Tray SW1. |
| 55 | P117 | DISC SW | Input | 5-Changer Disc SW. |
| 56 | P116 | CLAMP SW | Input | 5-Changer Clamp SW. |
| 57 | P115 | DIST | Input | Destination input. |
| 58-68 | FIP41-FIP31 | S30-S20 | Output | FL Segment driver. |
| 69 | P101/FIP30 | S19/DEST0 | Input | FL segment driver/Destination input. |
| 70 | P100/FIP29 | S18/DEST1 | Output | FL segment driver/Destination input. |
| 71 | P97/FIP28 | S17/DEST2 | Output | FL segment driver/Destination input. |
| 72 | P96/FIP27 | S16/DEST3 | Output | FL segment driver/Destination input. |

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC701 RH-iXA008AWZZ: System Microcomputer (IXA008AW) (2/2)

| Pin No. | Port Name | Terminal Name | Input/Output | Function |
|---------|-------------|---------------|--------------|--------------------|
| 73-78 | FIP26-FIP21 | S15-S10 | Output | FL segment driver. |
| 79 | VLOAD | VLOAD | Input | VLOAD -35 V |
| 80-88 | FIP20-FIP11 | S9-S1 | Output | FL segment driver. |
| 89-100 | FIP10-FIP0 | G12-G1 | Output | FL grid driver. |

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

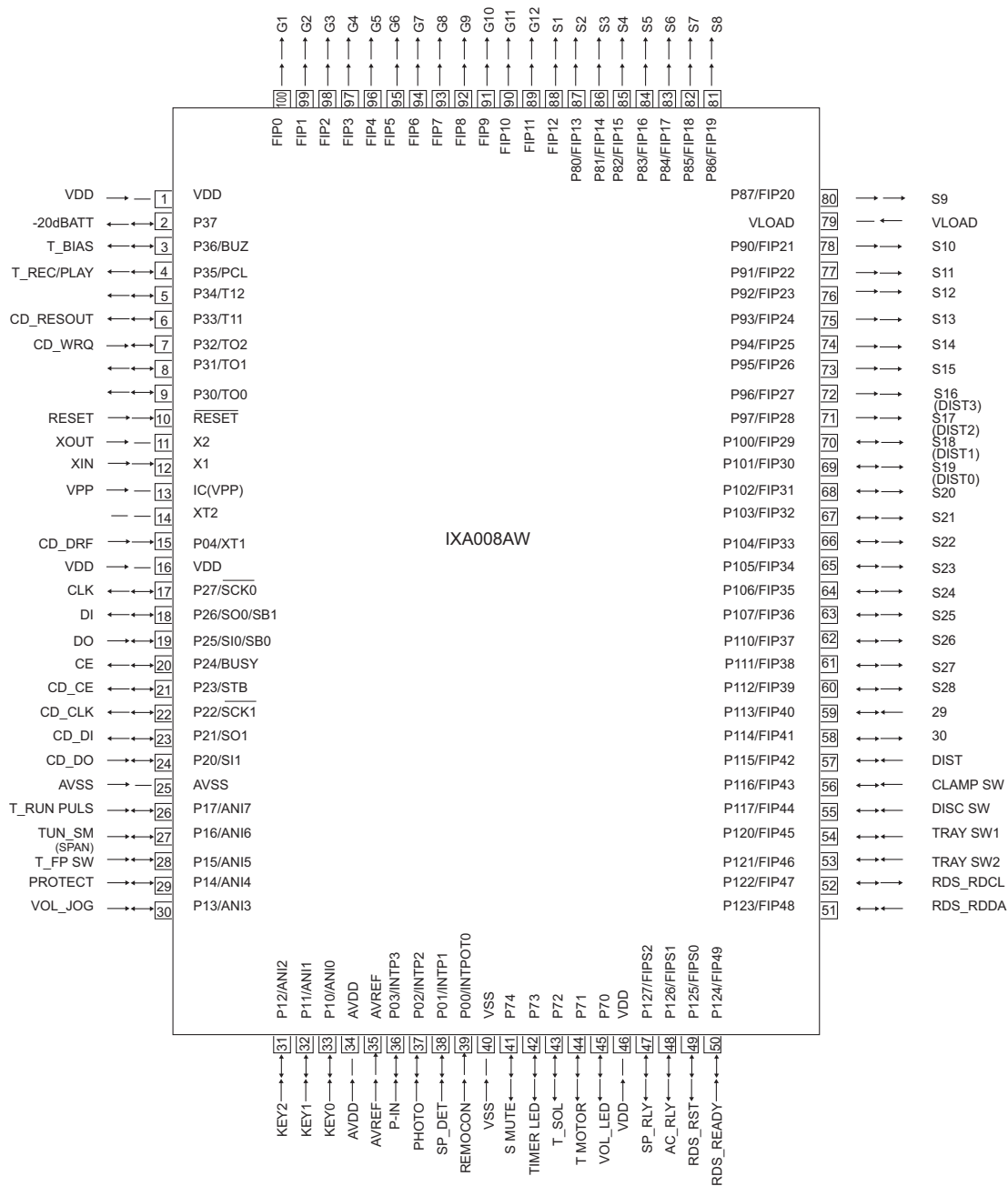
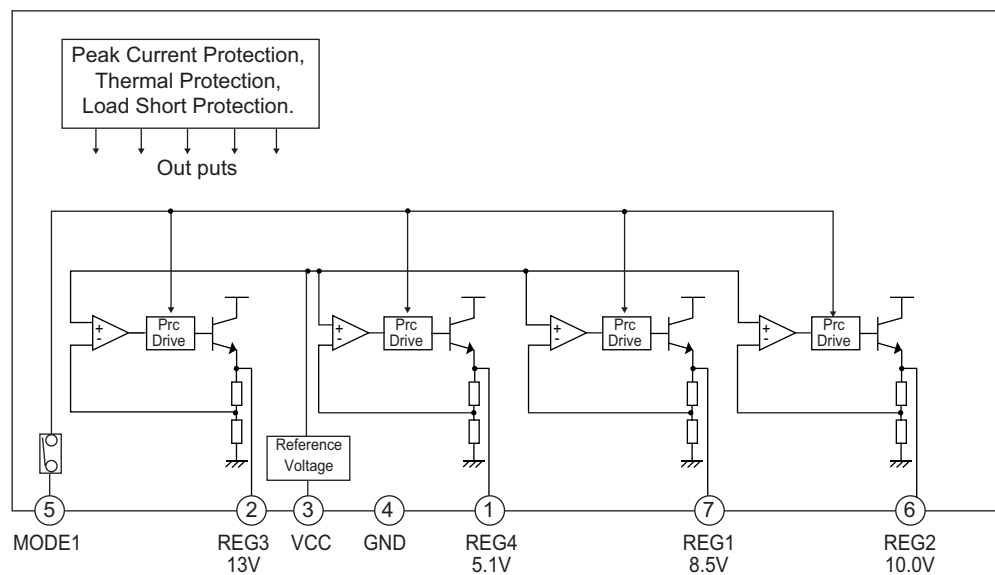


Figure 8-8 BLOCK DIAGRAM OF IC

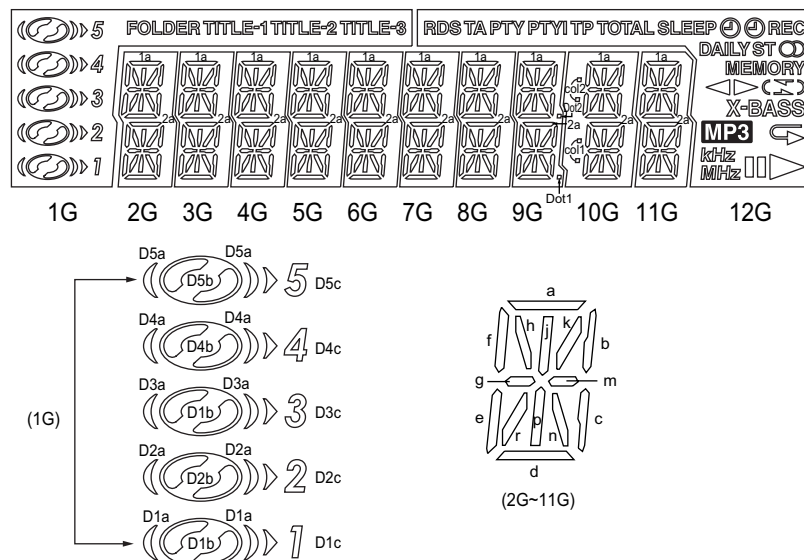
IC851 VHIAN80T53/-1: Multi Regulator (AN80T53)

| Pin No. | Terminal Name | Function |
|---------|---------------|---|
| 1 | REG4 Output | 5.1 V power supply with a minimum peak out current of 1200 mA. |
| 2 | REG3 Output | 13 V power supply with a minimum peak out current of 1350 mA. |
| 3 | VCC | Connected to Power supplies. |
| 4 | GND | Connected to the IC substrate. |
| 5 | MODE 1 | REG1, REG2, REG3 and REG4 outputs are turned ON when this pin is 5 V. |
| 6 | REG2 Output | 10 V power supply with a minimum peak out current of 800 mA. |
| 7 | REG1 Output | 8.5 V power supply with a minimum peak out current of 700 mA. |

**Figure 8-9 BLOCK DIAGRAM OF IC**

[2] FL Display

FL701 VVKNA12MM44-1

GRID ASSIGNMENT**ANODE CONNECTION**

| | 1G | 2G | 3G | 4G | 5G | 6G | 7G | 8G | 9G | 10G | 11G | 12G |
|-----|---------|----|----|----|----|----|----|----|------|------|-----|--------|
| P1 | FOLDER | 1a | 1a | 1a | 1a | 1a | 1a | 1a | 1a | 1a | 1a | |
| P2 | TITLE-1 | 1b | 1b | 1b | 1b | 1b | 1b | 1b | 1b | 1b | 1b | |
| P3 | TITLE-2 | 1k | 1k | 1k | 1k | 1k | 1k | 1k | 1k | 1k | 1k | TOTAL |
| P4 | TITLE-3 | 1j | 1j | 1j | 1j | 1j | 1j | 1j | 1j | 1j | 1j | RDS |
| P5 | 5 | 1h | 1h | 1h | 1h | 1h | 1h | 1h | 1h | 1h | 1h | TA |
| P6 | D5-a | 1f | 1f | 1f | 1f | 1f | 1f | 1f | 1f | 1f | 1f | PTY |
| P7 | D5-b | 1m | 1m | 1m | 1m | 1m | 1m | 1m | 1m | 1m | 1m | PTYI |
| P8 | D5-c | 1d | 1d | 1d | 1d | 1d | 1d | 1d | 1d | 1d | 1d | TP |
| P9 | 4 | 1g | 1g | 1g | 1g | 1g | 1g | 1g | 1g | 1g | 1g | SLEEP |
| P10 | D4-a | 1p | 1p | 1p | 1p | 1p | 1p | 1p | 1p | 1p | 1p | DAILY |
| P11 | D4-b | 1e | 1e | 1e | 1e | 1e | 1e | 1e | 1e | 1e | 1e | (L)Ⓢ |
| P12 | D4-c | 1n | 1n | 1n | 1n | 1n | 1n | 1n | 1n | 1n | 1n | (R)Ⓢ |
| P13 | 3 | 1r | 1r | 1r | 1r | 1r | 1r | 1r | 1r | 1r | 1r | REC |
| P14 | D3-a | 1c | 1c | 1c | 1c | 1c | 1c | 1c | 1c | 1c | 1c | ST |
| P15 | D3-b | 2a | 2a | 2a | 2a | 2a | 2a | 2a | 2a | 2a | 2a | ◀ |
| P16 | D3-c | 2b | 2b | 2b | 2b | 2b | 2b | 2b | 2b | 2b | 2b | ▶ |
| P17 | 2 | 2k | 2k | 2k | 2k | 2k | 2k | 2k | 2k | 2k | 2k | Ⓢ |
| P18 | D2-a | 2j | 2j | 2j | 2j | 2j | 2j | 2j | 2j | 2j | 2j | () |
| P19 | D2-b | 2h | 2h | 2h | 2h | 2h | 2h | 2h | 2h | 2h | 2h | Ⓢ |
| P20 | D2-c | 2f | 2f | 2f | 2f | 2f | 2f | 2f | 2f | 2f | 2f |) |
| P21 | 1 | 2m | 2m | 2m | 2m | 2m | 2m | 2m | 2m | 2m | 2m | MEMORY |
| P22 | D1-a | 2d | 2d | 2d | 2d | 2d | 2d | 2d | 2d | 2d | 2d | Ⓢ |
| P23 | D1-b | 2g | 2g | 2g | 2g | 2g | 2g | 2g | 2g | 2g | 2g | ▶(Ⓢ) |
| P24 | D1-c | 2p | 2p | 2p | 2p | 2p | 2p | 2p | 2p | 2p | 2p | kHz |
| P25 | | 2e | 2e | 2e | 2e | 2e | 2e | 2e | 2e | 2e | 2e | MHz |
| P26 | | 2n | 2n | 2n | 2n | 2n | 2n | 2n | 2n | 2n | 2n | Ⓢ |
| P27 | | 2r | 2r | 2r | 2r | 2r | 2r | 2r | 2r | 2r | 2r | MP3 |
| P28 | | 2c | 2c | 2c | 2c | 2c | 2c | 2c | 2c | 2c | 2c | X-BASS |
| P29 | | | | | | | | | Dot1 | Col1 | | |
| P30 | | | | | | | | | Dot2 | Col2 | | |

OUTER DIMENSIONS**PIN CONNECTION**

| PIN NO. | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 | 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 | 29 | 28 | 27 | 26 |
|------------|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| CONNECTION | F2 | F2 | NP | NP | P30 | P29 | P28 | P27 | P26 | P25 | P24 | P23 | P22 | P21 | P20 | P19 | P18 | P17 | P16 | P15 | P14 | P13 | P12 | P11 | P10 | P9 |

| PIN NO. | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|------------|----|----|----|----|----|----|----|----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| CONNECTION | P8 | P7 | P6 | P5 | P4 | P3 | P2 | P1 | 12G | 11G | 10G | 9G | 8G | 7G | 6G | 5G | 4G | 3G | NX | NX | 2G | 1G | NP | F1 | F1 |

SHARP PARTS GUIDE

MINI COMPONENT SYSTEM

MODEL CD-MPS900

CD-MPS900 Mini Component System consisting of CD-MPS900 (main unit) and CP-MPS900 (speaker system).

MINI COMPONENT SYSTEM

MODEL CD-MPS99

CD-MPS99 Mini Component System consisting of CD-MPS99 (main unit) and CP-MPS99 (speaker system).

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To have your order filled promptly and correctly, please furnish the following information.

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| 3. PART NO. | 4. DESCRIPTION |

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Explanation of capacitors/resistors parts codes

Capacitors

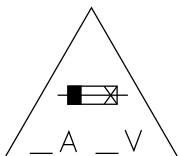
VCC Ceramic type
 VCK Ceramic type
 VCT Semiconductor type
 VC •• MF Cylindrical type (without lead wire)
 VC •• MN Cylindrical type (without lead wire)
 VC •• TV Square type (without lead wire)
 VC •• TQ Square type (without lead wire)
 VC •• CY Square type (without lead wire)
 VC •• CZ Square type (without lead wire)
 VC J .. The 13th character represents capacity difference.
 ("J" $\pm 5\%$, "K" $\pm 10\%$, "M" $\pm 20\%$, "N" $\pm 30\%$,
 "C" ± 0.25 pF, "D" ± 0.5 pF, "Z" $+80-20\%$.)

If there are no indications for the electrolytic capacitors, error is $\pm 20\%$.

Resistors

VRD Carbon-film type
 VRS Carbon-film type
 VRN Metal-film type
 VR •• MF Cylindrical type (without lead wire)
 VR •• MN Cylindrical type (without lead wire)
 VR •• TV Square type (without lead wire)
 VR •• TQ Square type (without lead wire)
 VR •• CY Square type (without lead wire)
 VR •• CZ Square type (without lead wire)
 VR J .. The 13th character represents error.
 ("J" $\pm 5\%$, "F" $\pm 1\%$, "D" $\pm 0.5\%$.)

If there are no indications for other parts, the resistors are $\pm 5\%$ carbon-film type.



CAUTION:FOR CONTINUED
 PROTECTION AGAINST FIRE
 HAZARD, REPLACE ONLY WITH
 SAME TYPE F801, F802 5A, 125V /
 F803, F804 2A, 125V / F805 6A, 125V FUSES

ATTENTION:POUR ASSURER
 UNE LONGUE PROTECTION CONTRE
 UNINCENDIE, REMPLACER SEULEMENT
 PAR UN FUSIBLE DE
 TYPE F801, F802 5A, 125V /
 F803, F804 2A, 125V / F805 6A, 125V

NOTE:

Parts marked with "▲" are important for maintaining the safety of the set.
 Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

CD-MPS900/CD-MPS99

| NO. | PART CODE | ★ | PRICE RANK | DESCRIPTION |
|----------------------------|----------------|---|------------|---|
| CD-MPS900/CD-MPS99 | | | | |
| INTEGRATED CIRCUITS | | | | |
| IC1 | VHILC78648E-1 | J | AW | CD Servo,LC78648E |
| IC2 | VHILA6261//-1 | J | AN | Focus/Tracking/Spin/Sled Driver, LA6261 |
| IC3 | VHILC78683E-1 | J | BH | MP3 Decoder,LC78683E |
| IC4 | VHIL8316V35-1 | J | | D-RAM,L8316V35 |
| IC5 | RH-IXA006AWZZ | J | AT | Microcomputer,IXA006AW |
| IC6 | VHISI3033LUS-1 | J | AG | Voltage Regulator,SI3033LUS |
| IC101 | VHIAN7345K/-1 | J | AM | Playback and Record/Playback Amp.,AN7345K |
| IC301 | VHITA7358AP-1 | J | AG | FM Front End,TA7358AP |
| IC302 | VHILC72131/-1 | J | AP | PLL (Tuner),LC72131 |
| IC303 | VHILA1832S/-1 | J | AN | FM IF Det./FM Mpx./AM IF, LA1832S |
| IC601 | VHILC75341/-1 | J | AM | Audio Processor,LC75341 |
| IC701 | RH-IXA008AWZZ | J | AX | System Microcomputer, IXA008AW |
| IC851 | VHIAN80T53/-1 | J | AL | Multi Regulator,AN80T53 |
| IC854 | VHIAN78L05/-1 | J | AE | Voltage Regulator,AN78L05 |
| IC901 | VHISTK41244-1 | J | BF | Power Amp.,STK41244 |

TRANSISTORS

| | | | | |
|----------|---------------|---|----|------------------------|
| Q1 | VSKTA1504Y/-1 | J | AB | Silicon,PNP,KTA1504 Y |
| Q2 | VSKTA1271Y/-1 | J | AC | Silicon,PNP,KTA1271 Y |
| Q3-5 | VS2SD601AR/-1 | J | AC | Silicon,NPN,2SD601 AR |
| Q101~104 | VSKTC3200GR-1 | J | AC | Silicon,NPN,KTC3200 GR |
| Q105~108 | VSKTC3875GR-1 | J | AB | Silicon,NPN,KTC3875 GR |
| Q109 | VSKTA1504Y/-1 | J | AB | Silicon,PNP,KTA1504 Y |
| Q110 | VSKRC104S//1 | J | AC | Digital,NPN,KRC104 S |
| Q111 | VSKTC3203Y/-1 | J | AC | Silicon,NPN,KTC3203 Y |
| Q112 | VSKTA1504Y/-1 | J | AB | Silicon,PNP,KTA1504 Y |
| Q113,114 | VSKRC104S//1 | J | AC | Digital,NPN,KRC104 S |
| Q302 | VSKTC3194Y/-1 | J | AD | Silicon,NPN,KTC3194 Y |
| Q360 | VSKTA1266GR-1 | J | AB | Silicon,PNP,KTA1266 GR |
| Q601~604 | VSKTC3875GR-1 | J | AB | Silicon,NPN,KTC3875 GR |
| Q706~708 | VSKTA1273Y/-1 | J | AE | Silicon,PNP,KTA1273 Y |
| Q709,710 | VSKRC102S//1 | J | AB | Digital,NPN,KRC102 S |
| Q711 | VSKRA107S//1 | J | AB | Digital,NPN,KRA107 S |
| Q712~714 | VSKRC104S//1 | J | AC | Digital,NPN,KRC104 S |
| Q715 | VSKRA107S//1 | J | AB | Digital,NPN,KRA107 S |
| Q716 | VSKRC104S//1 | J | AC | Digital,NPN,KRC104 S |
| Q717 | VSKRA107S//1 | J | AB | Digital,NPN,KRA107 S |
| Q801 | VSKTA1274Y/-1 | J | AE | Silicon,PNP,KTA1274 Y |
| Q841 | VSKTC3199GR-1 | J | AB | Silicon,NPN,KTC3199 GR |
| Q885,886 | VSKTC3875GR-1 | J | AB | Silicon,NPN,KTC3875 GR |
| Q901~904 | VSKTC3875GR-1 | J | AB | Silicon,NPN,KTC3875 GR |
| Q905 | VSKTC3199GR-1 | J | AB | Silicon,NPN,KTC3199 GR |
| Q906,907 | VSKTC3203Y/-1 | J | AC | Silicon,NPN,KTC3203 Y |
| Q908,909 | VSKTC3875GR-1 | J | AB | Silicon,NPN,KTC3875 GR |
| QAP1 | VSKTC3199GR-1 | J | AB | Silicon,NPN,KTC3199 GR |
| QAP2 | VSKRC104M//1 | J | AC | Digital,NPN,KRC104 M |

DIODES

| | | | | |
|----------|---------------|---|----|---------------------|
| D1 | VHDKDS184//1 | J | AB | Silicon,KDS184 |
| D301,302 | VHDDS1SS133-1 | J | AB | Silicon,DS1SS133 |
| D305 | VHDDS1SS133-1 | J | AB | Silicon,DS1SS133 |
| D690,691 | VHDDS1SS133-1 | J | AB | Silicon,DS1SS133 |
| D709~716 | VHDDS1SS133-1 | J | AB | Silicon,DS1SS133 |
| D801,802 | VHDD10XB60F-1 | J | AL | Silicon,D10XB60F |
| D803~806 | VHD1N4004S/-1 | J | AB | Silicon,1N4004S |
| D842~845 | VHD1N4004S/-1 | J | AB | Silicon,1N4004S |
| △ D846 | VHDDS1SS133-1 | J | AB | Silicon,DS1SS133 |
| D853 | VHD1N4004S/-1 | J | AB | Silicon,1N4004S |
| D856 | VHDDS1SS133-1 | J | AB | Silicon,DS1SS133 |
| D860~863 | VHDDS1SS133-1 | J | AB | Silicon,DS1SS133 |
| D885 | VHDDS1SS133-1 | J | AB | Silicon,DS1SS133 |
| D905~907 | VHDDS1SS133-1 | J | AB | Silicon,DS1SS133 |
| D909,910 | VHD1N4004S/-1 | J | AB | Silicon,1N4004S |
| D911~914 | VHDDS1SS133-1 | J | AB | Silicon,DS1SS133 |
| DAP1 | VHDDS1SS133-1 | J | AB | Silicon,DS1SS133 |
| LED701 | VHP304VT2H3-1 | J | AC | LED,Red,304VT2H3 |
| LED703 | VHPSDPB50CD-1 | J | AK | LED,Blue,SDPB50CD |
| ZD1 | VHEMA8033//1 | J | AC | Zener,3.3V,MA8033 |
| ZD351 | VHEDZ5R1BSB-1 | J | AC | Zener,5.1V,DZ5.1BSB |
| ZD801 | VHEDZ6R2BSA-1 | J | AB | Zener,6.2V,DZ6.2BSA |

| NO. | PARTS CODE | ★ | PRICE RANK | DESCRIPTION |
|-----------|---------------|---|------------|---------------------|
| ZD802 | VHEDZ7R5BSB-1 | J | AB | Zener,7.5V,DZ7.5BSB |
| ZD803 | VHEDZ300BSB-1 | J | AB | Zener,30V,DZ30BSB |
| ZD805 | VHEDZ120BSB-1 | J | AB | Zener,12V,DZ12BSB |
| ZD902,903 | VHEDZ120BSB-1 | J | AB | Zener,12V,DZ12BSB |

FILTERS

| | | | | |
|-------|---------------|---|----|------------------|
| BF301 | RFILR0008AWZZ | J | AE | Band Pass Filter |
| CF303 | RFILF0124AFZZ | J | AD | FM IF,10.7 MHz |
| CF351 | RFILF0003AWZZ | J | AK | FM IF |
| CF352 | RFILA0009AWZZ | J | AE | AM IF |

TRANSFORMERS

| | | | | |
|---------|---------------|---|----|------------|
| △ PT801 | RTRNP0521AWZZ | J | BL | Power,Main |
| △ PT841 | RTRNP0483AWZZ | J | AL | Power,Sub |
| T301 | RCILB0065AWZZ | J | AC | FM OSC. |
| T302 | RCIL0017AWZZ | J | AB | FM IF |
| T303 | RCILA0052AWZZ | J | AE | AM Antenna |
| T306 | RCILB0067AWZZ | J | AD | AM OSC. |
| T351 | RCIL0019AWZZ | J | AD | AM IF |

COILS

| | | | | |
|----------|---------------|---|----|--------------|
| L1 | RCILC0011AWZZ | J | AD | 0.82 μH |
| L2,3 | RCILC0012AWZZ | J | AD | 2.2 μH |
| L103 | VP-MK331K0000 | J | AB | 330 μH,Choke |
| L312 | RCILR0056AWZZ | J | AB | FM RF |
| L351,352 | VP-DH101K0000 | J | AB | 100 μH,Choke |
| L701 | VP-DH101K0000 | J | AB | 100 μH,Choke |
| L901,902 | RCILZ0024AWZZ | J | AC | 3 μH,Choke |
| L920,921 | RCILZ0137AFZZ | J | AA | 0.29 μH |

VARIABLE CAPACITORS

| | | | | |
|-----------|---------------|---|----|------------------------------|
| VD301 | VHCSVC347S/-1 | J | AG | Variable Capacitance,SVC347S |
| VD302,303 | VHCSVC230C/-1 | J | AD | Variable Capacitance,SVC230C |

VIBRATORS

| | | | | |
|-------|---------------|---|----|---------------------|
| X351 | 92LCRSTL1425A | J | AF | Crystal,456 kHz |
| X352 | RCRSP0019AWZZ | J | AF | Crystal,4.5 MHz |
| XL1 | RCRM-0047AWZZ | J | AE | Ceramic,16.9344 MHz |
| XL2 | RCRM-0043AWZZ | J | AB | Ceramic,4.19 MHz |
| XL701 | RCRSP0003AWZZ | J | AH | Crystal,4.19 MHz |

CAPACITORS

| | | | | |
|--------|---------------|---|----|--------------------------|
| C1 | VCEAZA1EW476M | J | AB | 47 μF,25V,Electrolytic |
| C2 | VCKYCY1CB103K | J | AA | 0.01 μF,16V |
| C3 | VCEAZA1EW476M | J | AB | 47 μF,25V,Electrolytic |
| C4 | VCKYCY1HB102K | J | AA | 0.001 μF,50V |
| C5 | VCKYCY1CB473K | J | AA | 0.047 μF,16V |
| C6 | VCKYCY1CB103K | J | AA | 0.01 μF,16V |
| C8 | VCKYCY1HB272K | J | AA | 0.0027 μF,50V |
| C9 | RC-EZ0004AWZZ | J | AD | 3.3 μF,16V,Electrolytic |
| C10 | VCKYCY1CB104K | J | AB | 0.1 μF,16V |
| C11 | VCKYCY1CB563K | J | AB | 0.056 μF,16V |
| C12 | VCCCCY1HH101J | J | AA | 100 pF (CH),50V |
| C13 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V |
| C14 | VCEAZA1AW476M | J | AB | 47 μF,10V,Electrolytic |
| C17 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V |
| C18 | VCEAZA1AW107M | J | AB | 100 μF,10V,Electrolytic |
| C20 | VCEAZA0JW337M | J | AC | 330 μF,6.3V,Electrolytic |
| C21,22 | VCEAZA1EW106M | J | AB | 10 μF,25V,Electrolytic |
| C23,24 | VCQYKA1HM152K | J | AB | 0.0015 μF,50V,Mylar |
| C25 | VCKYCY1CB103K | J | AA | 0.01 μF,16V |
| C26 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V |
| C27,28 | VCCCCY1HH101J | J | AA | 100 pF (CH),50V |
| C29 | VCKYCY1HB102K | J | AA | 0.001 μF,50V |
| C30 | VCCCCY1HH101J | J | AA | 100 pF (CH),50V |
| C31 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V |
| C32 | VCCCCY1HH101J | J | AA | 100 pF (CH),50V |
| C33 | VCKYCY1CB563K | J | AB | 0.056 μF,16V |
| C34 | VCKYCY1CB103K | J | AA | 0.01 μF,16V |
| C35 | VCKYCY1CB473K | J | AA | 0.047 μF,16V |
| C36 | VCKYCY1CF224Z | J | AB | 0.22 μF,16V |
| C37 | VCKYCY1CB104K | J | AB | 0.1 μF,16V |
| C38 | VCKYCY1CB103K | J | AA | 0.01 μF,16V |

| NO. | PART CODE | ★ | PRICE RANK | DESCRIPTION | NO. | PARTS CODE | ★ | PRICE RANK | DESCRIPTION |
|----------|---------------|---|---------------|------------------------------|----------|---------------|---|---------------|---------------------------|
| C39 | VCKYCY1CB104K | J | AB | 0.1 μF,16V | C347 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V |
| C41 | VCEAZA1AW107M | J | AB | 100 μF,10V,Electrolytic | C350,351 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V |
| C42 | VCCCCY1HH330J | J | AA | 33 pF (CH),50V | C352 | VCEAZA1HW106M | J | AB | 10 μF,50V,Electrolytic |
| C44 | VCEAZA1AW107M | J | AB | 100 μF,10V,Electrolytic | C353,354 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V |
| C46,47 | VCKYCY1CB103K | J | AA | 0.01 μF,16V | C355 | VCCCCY1HH220J | J | AA | 22 pF (CH),50V |
| C48 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V | C356 | VCKYCY1HB102K | J | AA | 0.001 μF,50V |
| C50 | VCEAZA1AW476M | J | AB | 47 μF,10V,Electrolytic | C357 | VCEAZA1HW225M | J | AB | 2.2 μF,50V,Electrolytic |
| C51~53 | VCKYCY1CB103K | J | AA | 0.01 μF,16V | C358 | VCEAZA1HW105M | J | AB | 1 μF,50V,Electrolytic |
| C56,57 | VCEAZA1AW107M | J | AB | 100 μF,10V,Electrolytic | C361 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V |
| C58 | VCEAZA1AW476M | J | AB | 47 μF,10V,Electrolytic | C362 | VCEAZA1HW335M | J | AB | 3.3 μF,50V,Electrolytic |
| C59 | VCKYCY1CB104K | J | AB | 0.1 μF,16V | C363 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V |
| C60 | VCKYCY1HB102K | J | AA | 0.001 μF,50V | C364 | VCEAZA1HW225M | J | AB | 2.2 μF,50V,Electrolytic |
| C61 | VCEAZA1AW107M | J | AB | 100 μF,10V,Electrolytic | C365 | VCTYPA1CX223K | J | AA | 0.022 μF,16V |
| C62 | VCKYCY1CB103K | J | AA | 0.01 μF,16V | C366 | VCKYCY1HB102K | J | AA | 0.001 μF,50V |
| C63 | VCEAZA1HW105M | J | AB | 1 μF,50V,Electrolytic | C367,368 | VCEAZA1HW105M | J | AB | 1 μF,50V,Electrolytic |
| C64 | VCCCCY1HH330J | J | AA | 33 pF (CH),50V | C369 | VCCCCY1HH270J | J | AA | 27 pF (CH),50V |
| C65 | VCEAZA1AW476M | J | AB | 47 μF,10V,Electrolytic | C370~372 | VCEAZA1HW105M | J | AB | 1 μF,50V,Electrolytic |
| C66 | VCKYCY1CB103K | J | AA | 0.01 μF,16V | C373,374 | VCTYPA1CX153K | J | AA | 0.015 μF,16V |
| C68 | VCKYCY1CB103K | J | AA | 0.01 μF,16V | C376~379 | VCCCCY1HH101J | J | AA | 100 pF (CH),50V |
| C69 | VCEAZA1EW476M | J | AB | 47 μF,25V,Electrolytic | C380 | VCEAZA1HW106M | J | AB | 10 μF,50V,Electrolytic |
| C70 | VCKYCY1CB103K | J | AA | 0.01 μF,16V | C381 | VCCCCY1HH120J | J | AA | 12 pF (CH),50V |
| C71 | VCKYCY1CB104K | J | AB | 0.1 μF,16V | C382 | VCCCCY1HH150J | J | AA | 15 pF (CH),50V |
| C72,73 | VCCCCY1HH101J | J | AA | 100 pF (CH),50V | C383 | VCCSBT1HL470J | J | AA | 47 pF,50V |
| C74 | VCKYCY1HB102K | J | AA | 0.001 μF,50V | C384 | VCKYCY1HB102K | J | AA | 0.001 μF,50V |
| C75 | VCKYCY1HB102K | J | AA | 0.001 μF,50V | C385 | VCKYCY1HB103K | J | AA | 0.01 μF,50V |
| C76 | VCKYCY1CB103K | J | AA | 0.01 μF,16V | C386 | VCKYCY1HB331K | J | AA | 330 pF,50V |
| C82 | VCKYCY1HB332K | J | AA | 0.0033 μF,50V | C387 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V |
| C83 | VCKYCY1HB102K | J | AA | 0.001 μF,50V | C388 | VCKYCY1HB102K | J | AA | 0.001 μF,50V |
| C84 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V | C389 | VCKYBT1HB102K | J | AA | 0.001 μF,50V |
| C85,86 | VCTYBT1EF223Z | J | AA | 0.022 μF,25V | C391 | VCEAZA1EW476M | J | AB | 47 μF,25V,Electrolytic |
| C101,102 | VCKYCY1HB561K | J | AA | 560 pF,50V | C392 | VCKYCY1HB102K | J | AB | 0.001 μF,50V |
| C103 | VCKYBT1HB181K | J | AA | 180 pF,50V | C393 | VCEAZA1HW105M | J | AB | 1 μF,50V,Electrolytic |
| C104 | VCCCCY1HH181J | J | AA | 180 pF (CH),50V | C394 | VCEAZA1EW476M | J | AB | 47 μF,25V,Electrolytic |
| C105,106 | VCKYCY1HB152K | J | AA | 0.0015 μF,50V | C395 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V |
| C107~110 | VCKYCY1HB331K | J | AA | 330 pF,50V | C396 | VCEAZA1AW107M | J | AB | 100 μF,10V,Electrolytic |
| C111,112 | VCEAZA1EW476M | J | AB | 47 μF,25V,Electrolytic | C397 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V |
| C113,114 | VCTYPA1EX393K | J | AA | 0.039 μF,25V | C398 | VCEAZA1AW107M | J | AB | 100 μF,10V,Electrolytic |
| C115,116 | VCKYCY1HB561K | J | AA | 560 pF,50V | C399 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V |
| C117,118 | VCEAZA1EW476M | J | AB | 47 μF,25V,Electrolytic | C601 | VCEAZA1CW227M | J | AC | 220 μF,16V,Electrolytic |
| C119,120 | VCKYCY1HB222K | J | AA | 0.0022 μF,50V | C602 | VCKYPA1HF223Z | J | AB | 0.022 μF,50V |
| C121 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V | C603 | VCEAZA1AW227M | J | AC | 220 μF,10V,Electrolytic |
| C123,124 | VCKYCY1HB271K | J | AA | 270 pF,50V | C605,606 | VCFYFA1HA104J | J | AC | 0.1 μF,50V,Thin Film |
| C125,126 | VCEAZA1HW226M | J | AB | 22 μF,50V,Electrolytic | C607,608 | VCFYFA1HA823J | J | AB | 0.082 μF,50V |
| C127,128 | VCTYPA1CX223K | J | AA | 0.022 μF,16V | C609,610 | VCEAZA1HW105M | J | AB | 1 μF,50V,Electrolytic |
| C129,130 | VCKYCY1HB332K | J | AA | 0.0033 μF,50V | C611,612 | VCKYCY1HB222K | J | AA | 0.0022 μF,50V |
| C131,132 | VCEAZA1EW476M | J | AB | 47 μF,25V,Electrolytic | C613,614 | VCEAZA1HW105M | J | AB | 1 μF,50V,Electrolytic |
| C133 | VCEAZA1EW226M | J | AB | 22 μF,25V,Electrolytic | C615,616 | VCEAZA1HW475M | J | AB | 4.7 μF,50V,Electrolytic |
| C134 | VCEAZA1AW227M | J | AC | 220 μF,10V,Electrolytic | C617~624 | VCEAZA1HW105M | J | AB | 1 μF,50V,Electrolytic |
| C135 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V | C625,626 | VCKYCY1HB222K | J | AA | 0.0022 μF,50V |
| C137 | VCQYKA1HM473K | J | AB | 0.047 μF,50V,Mylar | C631 | VCKYBT1HB103K | J | AB | 0.01 μF,50V |
| C138 | VCQPKA2AA822J | J | AA | 0.0082 μF,100V,Polypropylene | C639 | VCEAZA1HW105M | J | AB | 1 μF,50V,Electrolytic |
| C139 | VCQYKA1HM393K | J | AB | 0.039 μF,50V,Mylar | C640 | VCEAZA1HW226M | J | AB | 22 μF,50V,Electrolytic |
| C140 | VCEAZA1EW476M | J | AB | 47 μF,25V,Electrolytic | C651~653 | VCKYCY1HB221K | J | AA | 220 pF,50V |
| C141 | VCEAZA1CW107M | J | AC | 100 μF,16V,Electrolytic | C690,691 | VCKYPA1HB391K | J | AA | 390 pF,50V |
| C143 | VCEAZA1HW335M | J | AB | 3.3 μF,50V,Electrolytic | C693 | VCKYCY1HB103K | J | AA | 0.01 μF,50V |
| C150 | VCEAZA1HW476M | J | AB | 47 μF,50V,Electrolytic | C694,695 | VCKYPA1HB102K | J | AA | 0.001 μF,50V |
| C302 | VCKYCY1HB102K | J | AA | 0.001 μF,50V | C696 | VCKYPA1HB103K | J | AA | 0.01 μF,50V |
| C303 | VCCCCY1HH100D | J | AA | 10 pF (CH),50V | C701 | VCEAZA1HW105M | J | AB | 1 μF,50V,Electrolytic |
| C304 | VCKYCY1HB103K | J | AA | 0.01 μF,50V | C702 | VCEAZA1AW227M | J | AC | 220 μF,10V,Electrolytic |
| C305 | VCCCCY1HH4R7C | J | AA | 4.7 pF (CH),50V | C704 | VCCCCY1HH150J | J | AA | 15 pF (CH),50V |
| C306 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V | C705 | VCCCCY1HH180J | J | AA | 18 pF (CH),50V |
| C307 | VCEAZA1HW106M | J | AB | 10 μF,50V,Electrolytic | C707 | VCEAZA1HW105M | J | AB | 1 μF,50V,Electrolytic |
| C308 | VCCCCY1HH4R7C | J | AA | 4.7 pF (CH),50V | C709,710 | VCKYCY1HB473K | J | AB | 0.047 μF,50V |
| C309 | VCKYCY1HB102K | J | AA | 0.001 μF,50V | C714 | VCEAZA1HW335M | J | AB | 3.3 μF,50V,Electrolytic |
| C310 | VCCCCY1HH150J | J | AA | 15 pF (CH),50V | C715 | VCKYCY1HB103K | J | AA | 0.01 μF,50V |
| C311 | VCCCCY1HH180J | J | AA | 18 pF (CH),50V | C717 | VCEAZA1EW476M | J | AB | 47 μF,25V,Electrolytic |
| C312 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V | C720,721 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V |
| C313 | VCCCCY1HH220J | J | AA | 22 pF (CH),50V | C723 | VCKYCY1EF473Z | J | AB | 0.047 μF,25V |
| C315 | VCKYCY1HB103K | J | AA | 0.01 μF,50V | C801 | VCEAZA1VW107M | J | AC | 100 μF,35V,Electrolytic |
| C316 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V | C802,803 | VCEAZA1HW476M | J | AB | 47 μF,50V,Electrolytic |
| C317 | VCKYCY1HB102K | J | AA | 0.001 μF,50V | C804 | VCEAZA1JW227M | J | AD | 220 μF,63V,Electrolytic |
| C318 | VCKYBT1HB101K | J | AA | 100 pF,50V | C805 | VCEAZA2AW226M | J | AC | 22 μF,100V,Electrolytic |
| C320 | VCKYBT1HB102K | J | AA | 0.001 μF,50V | C806~809 | VCQYKA1HM104K | J | AB | 0.1 μF,50V,Mylar |
| C323 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V | C810,811 | VCFYDA2AA224J | J | AD | 0.22 μF,100V,Thin Film |
| C324 | VCCCCY1HH4R7C | J | AA | 4.7 pF (CH),50V | C841 | VCEAZA0JW108M | J | AC | 1000 μF,6.3V,Electrolytic |
| C330 | VCCCCY1HH150J | J | AA | 15 pF (CH),50V | C842 | VCEAZA1VW477M | J | AD | 470 μF,35V,Electrolytic |
| C331 | VCKZPA1HF473Z | J | AA | 0.047 μF,50V | C843 | VCQYKA1HM473K | J | AB | 0.047 μF,50V,Mylar |
| C332 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V | △ C844 | RC-KZ002LAWZZ | J | AC | 0.0047 μF,250V,Ceramic |
| C334 | VCCCCY1HH220J | J | AA | 22 pF (CH),50V | C850 | VCEAZW1EW478M | J | AK | 4700 μF,25V,Electrolytic |
| C335 | VCKYCY1HB561K | J | AA | 560 pF,50V | C854 | VCEAZA1EW227M | J | AC | 220 μF,25V,Electrolytic |
| C338 | VCKYCY1HB102K | J | AA | 0.001 μF,50V | C855 | VCEAZA1HW106M | J | AB | 10 μF,50V,Electrolytic |
| C342 | VCKYCY1EF223Z | J | AB | 0.022 μF,25V | C856 | VCQYKA1HM104K | J | AB | 0.1 μF,50V,Mylar |

CD-MPS900/CD-MPS99

| NO. | PART CODE | ★ | PRICE RANK | DESCRIPTION |
|----------|---------------|---|------------|--------------------------|
| C859 | VCEAZA1HW226M | J | AB | 22 μF,50V,Electrolytic |
| C861 | VCKYPA1HF223Z | J | AB | 0.022 μF,50V |
| C864,865 | VCEAZA1EW226M | J | AB | 22 μF,25V,Electrolytic |
| C885 | VCKYCY1HB104K | J | AD | 0.1 μF,50V |
| C901,902 | VCEAZA1HW475M | J | AB | 4.7 μF,50V,Electrolytic |
| C903,904 | VCKYCY1HB102K | J | AA | 0.001 μF,50V |
| C905,906 | VCEAZA1HW476M | J | AB | 47 μF,50V,Electrolytic |
| C907 | VCCCCY1HH101J | J | AA | 100 pF (CH),50V |
| C908 | VCCCCY1HH3R0C | J | AA | 3 pF (CH),50V |
| C909 | VCCYKA1HM104K | J | AB | 0.1 μF,50V,Mylar |
| C910 | VCCCCY1HH3R0C | J | AA | 3 pF (CH),50V |
| C911,912 | VCEAZA2AW107M | J | AD | 100 μF,100V,Electrolytic |
| C913 | VCCCCY1HH101J | J | AA | 100 pF (CH),50V |
| C914,915 | VCEAZA2AW107M | J | AD | 100 μF,100V,Electrolytic |
| C916 | VCEAZA1HW107M | J | AC | 100 μF,50V,Electrolytic |
| C917 | VCKYCY1HB103K | J | AA | 0.01 μF,50V |
| C918 | VCEAZA1HW107M | J | AC | 100 μF,50V,Electrolytic |
| C919 | VCKYCY1HB103K | J | AA | 0.01 μF,50V |
| C920 | RC-EZ0124AWZZ | J | AR | 3900 μF,85V,Electrolytic |
| C921,922 | RC-EZ0065AWZZ | J | AN | 4700 μF,50V,Electrolytic |
| C923 | RC-EZ0124AWZZ | J | AR | 3900 μF,85V,Electrolytic |
| C925 | VCEAZA1HW476M | J | AB | 47 μF,50V,Electrolytic |
| C928,929 | VCCYKA1HM104K | J | AB | 0.1 μF,50V,Mylar |
| C931 | VCEAZA1HW106M | J | AB | 10 μF,50V,Electrolytic |
| C944 | VCEAZA1EW476M | J | AB | 47 μF,25V,Electrolytic |
| C946 | VCEAZA1HW104M | J | AB | 0.1 μF,50V,Electrolytic |
| C952 | VCKYCY1HB103K | J | AA | 0.01 μF,50V |

RESISTORS

| | | | | |
|--------|---------------|---|----|-------------------------------|
| R3 | VRS-CY1JB000J | J | AA | 0 ohm,Jumper,0.8x1.55mm,Green |
| R6 | VRS-CY1JB333J | J | AA | 33 kohms,1/16W |
| R7 | VRS-CY1JB470J | J | AA | 47 ohms,1/16W |
| R8 | VRS-CY1JB222J | J | AA | 2.2 kohms,1/16W |
| R9 | VRS-CY1JB100J | J | AA | 10 ohm,1/16W |
| R10 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R12 | VRS-CY1JB331J | J | AA | 330 ohms,1/16W |
| R13 | VRS-CY1JB822J | J | AA | 8.2 kohms,1/16W |
| R14~16 | VRS-CY1JB682J | J | AA | 6.8 kohms,1/16W |
| R17 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R18,19 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R20~22 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R23,24 | VRS-CY1JB222J | J | AA | 2.2 kohms,1/16W |
| R25,26 | VRS-CY1JB103J | J | AA | 10 kohm,1/16W |
| R27 | VRS-CY1JB101J | J | AA | 100 ohm,1/16W |
| R28 | VRS-CY1JB221J | J | AA | 220 ohms,1/16W |
| R29 | VRS-CY1JB151J | J | AA | 150 ohms,1/16W |
| R30~37 | VRS-CY1JB391J | J | AA | 390 ohms,1/16W |
| R38 | VRS-CY1JB563J | J | AA | 56 kohms,1/16W |
| R39 | VRS-CY1JB681J | J | AA | 680 ohms,1/16W |
| R40 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R41~48 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R49 | VRS-CY1JB222J | J | AA | 2.2 kohms,1/16W |
| R50 | VRS-CY1JB681J | J | AA | 680 ohms,1/16W |
| R52 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R54 | VRS-CY1JB562J | J | AA | 5.6 kohms,1/16W |
| R55 | VRS-CY1JB682J | J | AA | 6.8 kohms,1/16W |
| R56 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R57,58 | VRS-CY1JB103J | J | AA | 10 kohm,1/16W |
| R59 | VRS-CY1JB222J | J | AA | 2.2 kohms,1/16W |
| R60 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R61 | VRS-CY1JB222J | J | AA | 2.2 kohms,1/16W |
| R62 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R63 | VRS-CY1JB222J | J | AA | 2.2 kohms,1/16W |
| R64 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R65 | VRS-CY1JB222J | J | AA | 2.2 kohms,1/16W |
| R66,67 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R68 | VRS-CY1JB104J | J | AA | 100 kohm,1/16W |
| R69,70 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R71 | VRS-CY1JB222J | J | AA | 2.2 kohms,1/16W |
| R72 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R73 | VRS-CY1JB222J | J | AA | 2.2 kohms,1/16W |
| R74 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R75 | VRS-CY1JB221J | J | AA | 220 ohms,1/16W |
| R76~78 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R79 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R80 | VRS-CY1JB820J | J | AA | 82 ohms,1/16W |
| R81 | VRS-CY1JB332J | J | AA | 3.3 kohms,1/16W |
| R82 | VRS-CY1JB222J | J | AA | 2.2 kohms,1/16W |
| R83 | VRS-CY1JB151J | J | AA | 150 ohms,1/16W |

| NO. | PARTS CODE | ★ | PRICE RANK | DESCRIPTION |
|----------|---------------|---|------------|-----------------|
| R84 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R85 | VRS-CY1JB222J | J | AA | 2.2 kohms,1/16W |
| R86~89 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R91,92 | VRS-CY1JB103J | J | AA | 10 kohm,1/16W |
| R93 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R94,95 | VRD-ST2EE1R0J | J | AA | 1 ohm,1/4W |
| R96 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R97 | VRS-CY1JB473J | J | AA | 47 kohms,1/16W |
| R98 | VRS-CY1JB391J | J | AA | 390 ohms,1/16W |
| R99 | VRS-CY1JB225J | J | AA | 2.2 Mohms,1/16W |
| R101,102 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R103,104 | VRS-CY1JB222J | J | AA | 2.2 kohms,1/16W |
| R105,106 | VRS-CY1JB332J | J | AA | 3.3 kohms,1/16W |
| R107,108 | VRS-CY1JB473J | J | AA | 47 kohms,1/16W |
| R109,110 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R111 | VRD-ST2CD153J | J | AA | 15 kohms,1/6W |
| R112 | VRS-CY1JB153J | J | AA | 15 kohms,1/16W |
| R113,114 | VRD-ST2CD102J | J | AA | 1 kohm,1/6W |
| R115,116 | VRD-ST2CD560J | J | AA | 56 ohms,1/6W |
| R117,118 | VRS-CY1JB104J | J | AA | 100 kohm,1/16W |
| R119,120 | VRS-CY1JB392J | J | AA | 3.9 kohms,1/16W |
| R121,122 | VRS-CY1JB273J | J | AA | 27 kohms,1/16W |
| R123,124 | VRS-CY1JB682J | J | AA | 6.8 kohms,1/16W |
| R126,127 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R128,129 | VRS-CY1JB562J | J | AA | 5.6 kohms,1/16W |
| R130,131 | VRS-CY1JB152J | J | AA | 1.5 kohms,1/16W |
| R132,133 | VRS-CY1JB101J | J | AA | 100 ohm,1/16W |
| R134,135 | VRS-CY1JB103J | J | AA | 10 kohm,1/16W |
| R136,137 | VRS-CY1JB224J | J | AA | 220 kohms,1/16W |
| R138,139 | VRS-CY1JB103J | J | AA | 10 kohm,1/16W |
| R140 | VRS-CY1JB473J | J | AA | 47 kohms,1/16W |
| R141 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R142 | VRD-RT2HD820J | J | AA | 82 ohms,1/2W |
| R143 | VRS-CY1JB473J | J | AA | 47 kohms,1/16W |
| R144 | VRS-CY1JB223J | J | AA | 22 kohms,1/16W |
| R145 | VRD-ST2CD4R7J | J | AA | 4.7 ohms,1/6W |
| R146,147 | VRS-CY1JB103J | J | AA | 10 kohm,1/16W |
| R148 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R149 | VRD-ST2EE151J | J | AA | 150 ohms,1/4W |
| R150 | VRS-CY1JB683J | J | AA | 68 kohms,1/16W |
| R158 | VRD-ST2EE221J | J | AA | 220 ohms,1/4W |
| R302 | VRS-CY1JB100J | J | AA | 10 ohm,1/16W |
| R309 | VRD-ST2CD103J | J | AA | 10 kohm,1/6W |
| R311 | VRS-CY1JB104J | J | AA | 100 kohm,1/16W |
| R313 | VRS-CY1JB333J | J | AA | 33 kohms,1/16W |
| R314 | VRD-ST2CD220J | J | AA | 22 ohms,1/6W |
| R316 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R322 | VRS-CY1JB681J | J | AA | 680 ohms,1/16W |
| R323 | VRS-CY1JB683J | J | AA | 68 kohms,1/16W |
| R325 | VRS-CY1JB473J | J | AA | 47 kohms,1/16W |
| R336 | VRS-CY1JB103J | J | AA | 10 kohm,1/16W |
| R350 | VRS-CY1JB272J | J | AA | 2.7 kohms,1/16W |
| R351 | VRS-CY1JB562J | J | AA | 5.6 kohms,1/16W |
| R352 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R353 | VRS-CY1JB271J | J | AA | 270 ohms,1/16W |
| R355 | VRS-CY1JB332J | J | AA | 3.3 kohms,1/16W |
| R356 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R357 | VRS-CY1JB474J | J | AA | 470 kohms,1/16W |
| R358 | VRD-ST2CD392J | J | AA | 3.9 kohms,1/6W |
| R359 | VRS-CY1JB182J | J | AA | 1.8 kohms,1/16W |
| R360 | VRS-CY1JB472J | J | AA | 4.7 kohms,1/16W |
| R365 | VRS-CY1JB103J | J | AA | 10 kohm,1/16W |
| R372~374 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R375 | VRD-ST2CD471J | J | AA | 470 ohms,1/6W |
| R376 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R377 | VRS-CY1JB473J | J | AA | 47 kohms,1/16W |
| R378 | VRS-CY1JB102J | J | AA | 1 kohm,1/16W |
| R379 | VRS-CY1JB222J | J | AA | 2.2 kohms,1/16W |
| R380 | VRS-CY1JB152J | J | AA | 1.5 kohms,1/16W |
| R381 | VRS-CY1JB103J | J | AA | 10 kohm,1/16W |
| R382 | VRD-ST2EE151J | J | AA | 150 ohms,1/4W |
| R383 | VRS-CY1JB562J | J | AA | 5.6 kohms,1/16W |
| R384 | VRD-ST2CD562J | J | AA | 5.6 kohms,1/6W |
| R385 | VRS-CY1JB562J | J | AA | 5.6 kohms,1/16W |
| R386 | VRD-ST2CD223J | J | AA | 22 kohms,1/6W |
| R387 | VRD-ST2CD562J | J | AA | 5.6 kohms,1/6W |
| R388 | VRS-CY1JB392J | J | AA | 3.9 kohms,1/16W |
| R391,392 | VRD-ST2EE271J | J | AA | 270 ohms,1/4W |
| R393 | VRD-ST2CD102J | J | AA | 1 kohm,1/6W |
| R395 | VRS-CY1JB473J | J | AA | 47 kohms,1/16W |
| R573 | VRD-ST2CD103J | J | AA | 10 kohm,1/6W |
| R593 | VRS-CY1JB103J | J | AA | 10 kohm,1/16W |

| NO. | PART CODE | ★ PRICE RANK | DESCRIPTION | NO. | PARTS CODE | ★ PRICE RANK | DESCRIPTION |
|----------|---------------|--------------|-----------------|----------|---------------|--------------|----------------------|
| R601~603 | VRD-ST2CD102J | J AA | 1 kohm,1/6W | △ R890 | RR-HZ0001AWZZ | J AE | 4.7 Mohms,1/2W |
| R604,605 | VRS-CY1JB103J | J AA | 10 kohm,1/16W | R891 | VRD-ST2EE101J | J AA | 100 ohm,1/4W |
| R606,607 | VRS-CY1JB392J | J AA | 3.9 kohms,1/16W | R901,902 | VRS-CY1JB563J | J AA | 56 kohms,1/16W |
| R608,609 | VRS-CY1JB272J | J AA | 2.7 kohms,1/16W | R903,904 | VRS-CY1JB102J | J AA | 1 kohm,1/16W |
| R610,611 | VRS-CY1JB222J | J AA | 2.2 kohms,1/16W | R905,906 | VRS-CY1JB561J | J AA | 560 ohms,1/16W |
| R612,613 | VRS-CY1JB391J | J AA | 390 ohms,1/16W | R907 | VRS-CY1JB563J | J AA | 56 kohms,1/16W |
| R614,615 | VRS-CY1JB472J | J AA | 4.7 kohms,1/16W | R908 | VRS-CY1JB102J | J AA | 1 kohm,1/16W |
| R616,617 | VRS-CY1JB222J | J AA | 2.2 kohms,1/16W | R909 | VRS-CY1JB333J | J AA | 33 kohms,1/16W |
| R618 | VRD-ST2CD331J | J AA | 330 ohms,1/6W | R910 | VRD-ST2CD102J | J AA | 1 kohm,1/6W |
| R619 | VRS-CY1JB331J | J AA | 330 ohms,1/16W | R911 | VRS-CY1JB563J | J AA | 56 kohms,1/16W |
| R620,621 | VRS-CY1JB223J | J AA | 22 kohms,1/16W | △ R912 | VRG-ST2EC101J | J AB | 100 ohm,1/4W,Fusable |
| R641 | VRS-CY1JB562J | J AA | 5.6 kohms,1/16W | R913 | VRN-CM05NR22J | J AD | 0.22 ohms,5W |
| R642 | VRD-ST2CD562J | J AA | 5.6 kohms,1/6W | R916 | VRN-CM05NR22J | J AD | 0.22 ohms,5W |
| R643,644 | VRS-CY1JB682J | J AA | 6.8 kohms,1/16W | R917 | VRN-CM05N0R1J | J AD | 0.1 ohm,5W |
| R690,691 | VRD-ST2CD682J | J AA | 6.8 kohms,1/6W | R918 | VRD-ST2CD222J | J AA | 2.2 kohms,1/6W |
| R692,693 | VRD-ST2CD333J | J AA | 33 kohms,1/6W | R919,920 | VRS-CY1JB152J | J AA | 1.5 kohms,1/16W |
| R701~703 | VRS-CY1JB102J | J AA | 1 kohm,1/16W | R921 | VRD-ST2CD222J | J AA | 2.2 kohms,1/6W |
| R704,705 | VRD-ST2CD102J | J AA | 1 kohm,1/6W | R922 | VRN-CM05N0R1J | J AD | 0.1 ohm,5W |
| R706 | VRS-CY1JB102J | J AA | 1 kohm,1/16W | R925,926 | VRD-RT2HD152J | J AA | 1.5 kohms,1/2W |
| R707~712 | VRD-ST2CD102J | J AA | 1 kohm,1/6W | R927,928 | VRD-ST2EE393J | J AA | 39 kohms,1/4W |
| R713~716 | VRS-CY1JB102J | J AA | 1 kohm,1/16W | R929,930 | VRD-ST2EE473J | J AA | 47 kohms,1/4W |
| R717 | VRD-ST2CD102J | J AA | 1 kohm,1/6W | R934,935 | VRD-ST2CD563J | J AA | 56 kohms,1/6W |
| R718~722 | VRS-CY1JB102J | J AA | 1 kohm,1/16W | R937 | VRS-CY1JB563J | J AA | 56 kohms,1/16W |
| R723 | VRD-ST2CD102J | J AA | 1 kohm,1/6W | R938~941 | VRD-RT2HD100J | J AA | 10 ohm,1/2W |
| R724 | VRS-CY1JB102J | J AA | 1 kohm,1/16W | R942,943 | VRS-VV3DA821J | J AC | 820 ohms,2W |
| R725 | VRD-ST2CD102J | J AA | 1 kohm,1/6W | R944,945 | VRD-ST2CD152J | J AA | 1.5 kohms,1/6W |
| R726 | VRS-CY1JB222J | J AA | 2.2 kohms,1/16W | R946 | VRS-CY1JB473J | J AA | 47 kohms,1/16W |
| R727,728 | VRS-CY1JB681J | J AA | 680 ohms,1/16W | R947 | VRS-CY1JB153J | J AA | 15 kohms,1/16W |
| R729 | VRD-ST2CD561J | J AA | 560 ohms,1/6W | R949 | VRD-RT2HD102J | J AA | 1 kohm,1/2W |
| R730 | VRD-ST2CD102J | J AA | 1 kohm,1/6W | R950 | VRD-ST2CD683J | J AA | 68 kohms,1/6W |
| R731 | VRS-CY1JB103J | J AA | 10 kohm,1/16W | R951 | VRD-RT2HD102J | J AA | 1 kohm,1/2W |
| R732,733 | VRS-CY1JB102J | J AA | 1 kohm,1/16W | R956 | VRS-CY1JB102J | J AA | 1 kohm,1/16W |
| R736 | VRS-CY1JB102J | J AA | 1 kohm,1/16W | R957 | VRS-CY1JB472J | J AA | 4.7 kohms,1/16W |
| R739 | VRD-ST2CD102J | J AA | 1 kohm,1/6W | △ R958 | VRG-ST2EC101J | J AB | 100 ohm,1/4W,Fusable |
| R740 | VRD-ST2CD101J | J AA | 100 ohm,1/6W | R959 | VRS-CY1JB221J | J AA | 220 ohms,1/16W |
| R741 | VRD-ST2CD102J | J AA | 1 kohm,1/6W | R983 | VRS-CY1JB333J | J AA | 33 kohms,1/16W |
| R745 | VRD-ST2CD103J | J AA | 10 kohm,1/6W | R984 | VRS-CY1JB152J | J AA | 1.5 kohms,1/16W |
| R746 | VRD-ST2CD102J | J AA | 1 kohm,1/6W | R985,986 | VRS-CY1JB562J | J AA | 5.6 kohms,1/16W |
| R750 | VRD-ST2CD473J | J AA | 47 kohms,1/6W | R987,988 | VRS-CY1JB222J | J AA | 2.2 kohms,1/16W |
| R751 | VRD-ST2CD331J | J AA | 330 ohms,1/6W | RD01 | VRD-ST2CD681J | J AA | 680 ohms,1/6W |
| R759 | VRD-ST2CD562J | J AA | 5.6 kohms,1/6W | RD02 | VRS-CY1JB821J | J AA | 820 ohms,1/16W |
| R761,762 | VRS-CY1JB103J | J AA | 10 kohm,1/16W | RD03 | VRS-CY1JB102J | J AA | 1 kohm,1/16W |
| R763 | VRS-CY1JB102J | J AA | 1 kohm,1/16W | RD04 | VRD-ST2CD152J | J AA | 1.5 kohms,1/6W |
| R766~768 | VRS-CY1JB103J | J AA | 10 kohm,1/16W | RD05 | VRS-CY1JB222J | J AA | 2.2 kohms,1/16W |
| R769 | VRD-ST2CD102J | J AA | 1 kohm,1/6W | RD06 | VRS-CY1JB272J | J AA | 2.7 kohms,1/16W |
| R770 | VRS-CY1JB562J | J AA | 5.6 kohms,1/16W | RD11 | VRS-CY1JB681J | J AA | 680 ohms,1/16W |
| R771 | VRD-ST2CD472J | J AA | 4.7 kohms,1/6W | RD12 | VRS-CY1JB821J | J AA | 820 ohms,1/16W |
| R773 | VRS-CY1JB103J | J AA | 10 kohm,1/16W | RD13 | VRD-ST2CD102J | J AA | 1 kohm,1/6W |
| R775,776 | VRS-CY1JB472J | J AA | 4.7 kohms,1/16W | RD14 | VRS-CY1JB152J | J AA | 1.5 kohms,1/16W |
| R777~779 | VRS-CY1JB103J | J AA | 10 kohm,1/16W | RD15 | VRS-CY1JB222J | J AA | 2.2 kohms,1/16W |
| R780 | VRD-ST2CD103J | J AA | 10 kohm,1/6W | RD16 | VRS-CY1JB272J | J AA | 2.7 kohms,1/16W |
| R781 | VRS-CY1JB473J | J AA | 47 kohms,1/16W | RD17 | VRS-CY1JB392J | J AA | 3.9 kohms,1/16W |
| R782 | VRD-ST2CD104J | J AA | 100 kohm,1/6W | RD18 | VRS-CY1JB562J | J AA | 5.6 kohms,1/16W |
| R783 | VRS-CY1JB101J | J AA | 100 ohm,1/16W | RD19 | VRS-CY1JB103J | J AA | 10 kohm,1/16W |
| R784 | VRS-CY1JB102J | J AA | 1 kohm,1/16W | RD20 | VRS-CY1JB153J | J AA | 15 kohms,1/16W |
| R785 | VRS-CY1JB272J | J AA | 2.7 kohms,1/16W | RD21 | VRS-CY1JB333J | J AA | 33 kohms,1/16W |
| R786 | VRS-CY1JB472J | J AA | 4.7 kohms,1/16W | RD23 | VRD-ST2CD681J | J AA | 680 ohms,1/6W |
| R787 | VRD-ST2CD472J | J AA | 4.7 kohms,1/6W | RD24 | VRD-ST2CD821J | J AA | 820 ohms,1/6W |
| R788,789 | VRD-ST2CD103J | J AA | 10 kohm,1/6W | RD25 | VRD-ST2CD102J | J AA | 1 kohm,1/6W |
| R790 | VRS-CY1JB822J | J AA | 8.2 kohms,1/16W | RD26 | VRS-CY1JB152J | J AA | 1.5 kohms,1/16W |
| R791 | VRS-CY1JB103J | J AA | 10 kohm,1/16W | RD27 | VRS-CY1JB222J | J AA | 2.2 kohms,1/16W |
| R794,795 | VRD-ST2EE1R5J | J AA | 1.5 ohms,1/4W | RD28 | VRS-CY1JB272J | J AA | 2.7 kohms,1/16W |
| R801 | VRD-ST2CD104J | J AA | 100 kohm,1/6W | RD29 | VRS-CY1JB392J | J AA | 3.9 kohms,1/16W |
| R802 | VRD-ST2CD473J | J AA | 47 kohms,1/6W | RD30 | VRS-CY1JB562J | J AA | 5.6 kohms,1/16W |
| R803 | VRD-ST2CD123J | J AA | 12 kohms,1/6W | RD31 | VRS-CY1JB103J | J AA | 10 kohm,1/16W |
| R804,805 | VRD-ST2EE470J | J AA | 47 ohms,1/4W | RD32 | VRS-CY1JB153J | J AA | 15 kohms,1/16W |
| R806 | VRD-ST2CD473J | J AA | 47 kohms,1/6W | RM1,2 | VRS-CY1JB103J | J AA | 10 kohm,1/16W |
| R808 | VRD-RT2HD222J | J AA | 2.2 kohms,1/2W | | | | |
| R841 | VRD-ST2CD224J | J AA | 220 kohms,1/6W | | | | |
| R842 | VRD-ST2CD102J | J AA | 1 kohm,1/6W | | | | |
| R843 | VRD-ST2CD473J | J AA | 47 kohms,1/6W | | | | |
| R844 | VRD-ST2EE820J | J AA | 82 ohms,1/4W | | | | |
| R853 | VRD-ST2CD223J | J AA | 22 kohms,1/6W | | | | |
| R854 | VRD-ST2CD332J | J AA | 3.3 kohms,1/6W | | | | |
| R857 | VRD-ST2CD223J | J AA | 22 kohms,1/6W | | | | |
| R858 | VRD-ST2CD221J | J AA | 220 ohms,1/6W | | | | |
| R859 | VRD-ST2CD103J | J AA | 10 kohm,1/6W | | | | |
| R863 | VRD-RT2HD3R3J | J AA | 3.3 ohms,1/2W | | | | |
| R864 | VRD-ST2CD223J | J AA | 22 kohms,1/6W | | | | |
| R885 | VRS-CY1JB681J | J AA | 680 ohms,1/16W | | | | |
| R886,887 | VRS-CY1JB223J | J AA | 22 kohms,1/16W | | | | |
| R888,889 | VRD-ST2CD473J | J AA | 47 kohms,1/6W | | | | |

OTHER CIRCUITRY PARTS

| | | | |
|--------------|----------------|------|--------------------------|
| BI601/CNS601 | QCNCWN2715AWPZ | J AG | Connector Ass'y,9/8Pin |
| BI603/CNS603 | QCNCWN2714AWPZ | J AK | Connector Ass'y,6/5Pin |
| BI801/CNS801 | QCNCWN2713AWPZ | J AH | Connector Ass'y,11/10Pin |
| CNP1 | QCNCWYP16AWZZ | J AD | Socket,16Pin |
| CNP2 | 92LCONE8P53254 | J AC | Plug,8Pin |
| CNP3 | 92LCONE6P53253 | J AC | Plug,6Pin |
| CNP3A | 92LCONE6P53254 | J AC | Plug,6Pin |
| CNP4 | 92LCONE7P53253 | J AC | Plug,7Pin |
| CNP5 | QCNCWZY16AWZZ | J AD | Socket,16Pin |
| CNP6 | QCNCWZX11AWZZ | J AC | Socket,11Pin |
| CNP6A | QCNCWZO11AWZZ | J AC | Socket,11Pin |

CD-MPS900/CD-MPS99

| NO. | PART CODE | ★ | PRICE RANK | DESCRIPTION |
|------------|----------------|---|---------------|--|
| CNP101 | QCNCM705CAFZZ | J | AA | Plug,3Pin |
| CNP102 | QCNCM705GAFZZ | J | AB | Plug,7Pin |
| CNP301 | 92LCONE2P5268 | J | AB | Plug,2Pin |
| CNP602 | 92LCONE5P53253 | J | AB | Plug,5Pin |
| CNP701A | QCNCWZY16AWZZ | J | AD | Socket,16Pin |
| CNP701B | QCNCWZX16AWZZ | J | AD | Socket,16Pin |
| CNP702A | QCNCWZY07AWZZ | J | AC | Socket,7Pin |
| CNP704 | QCNCWZY16AWZZ | J | AD | Socket,16Pin |
| CNP801 | 92LCONEAP5267X | J | AC | Plug,10Pin |
| CNP802 | QCNCW012FAWZZ | J | AC | Plug,6Pin |
| CNP901 | QCNCW012EAWZZ | J | AC | Socket,5Pin |
| CNP971 | 92LCONE2P53253 | J | AB | Plug,2Pin |
| CNPAP1 | 92LCONE2P53253 | J | AB | Plug,2Pin |
| CNPAP2 | 92LCONE3P53253 | J | AB | Plug,3Pin |
| CNS3A/B | QCNWNA087AWPZ | J | AF | Connector Ass'y,6/6Pin |
| CNS971 | QCNWNA080AWPZ | J | AC | Connector Ass'y,2Pin |
| △ F801,802 | QFS-D502BSJN1 | J | AE | Fuse,5A/125V |
| △ F803,804 | QFS-D202BSJN1 | J | AB | Fuse,2A/125V |
| △ F805 | QFS-D602BSJN1 | J | AD | Fuse,6A/125V |
| FFC1 | QCNWN2700AWPZ | J | AE | Flat Cable,16Pin |
| FFC4 | QCNWN2701AWPZ | J | AD | Flat Cable,11Pin |
| FFC701 | QCNWN2716AWPZ | J | AF | Flat Cable,16Pin |
| FFC702 | QCNWN2495AWZZ | J | AD | Flat Cable,7Pin |
| FFC704 | QCNWN2718AWPZ | J | AF | Flat Cable,16Pin |
| FJ1 | RCORFA001AWZZ | J | AB | Core |
| FL701 | VVKNA12MM44-1 | J | AX | FL Display |
| FW705 | QCNWN2712AWPZ | J | AD | Flat Wire,6Pin |
| FW901 | QCNWN2711AWPZ | J | AD | Flat Wire,5Pin |
| JK690 | QSOCJ0313AWZZ | J | AF | Jack,Game Input |
| JK691 | QSOCJ0120AWZZ | J | AD | Jack,Video Out |
| JK692 | QJAKM0004AWZZ | J | AK | Jack,Headphones |
| JOG701 | QSW-ZA001AWZZ | J | AE | Switch,Jog Type [Volume] |
| LG1~4 | QLUGP0001AWZZ | J | AC | Lug Terminal |
| M1 | 92LMTR5529AASY | J | AD | Motor with Gear [Tray] |
| M2 | 92LMTR5529AASY | J | AD | Motor with Gear [Main Cam] |
| M901 | RMOTV0059AWZZ | J | AL | Motor Air Cooling,Fan |
| NM1 | 92LMTR5515CASY | J | AS | Motor with Chassis [Spindle] |
| NM2 | 92LMTR1854BASY | J | AP | Motor with Gear [Sled] |
| NSW1 | QSW-F9001AW01 | J | AD | Switch,Push Type [Pickup In] |
| △ RL841 | RRLYD0018AWZZ | J | AH | Relay |
| RL914 | RRLYD0016AWZZ | J | AH | Relay |
| RX1 | VHPGP1S094HCZ | J | AF | Photo Interrupter,GP1S094HCZ |
| RX701 | VHLPIC3704/-1 | J | AG | Remote Sensor,PLC3704 |
| SO302 | QTANCO206AWZZ | J | AD | Terminal,FM Antenna |
| SO902 | QTANA0424AWZZ | J | AE | Terminal,Speaker |
| SW1 | QSW-P9003AWZZ | J | AD | Switch,Push Type [Clamp] |
| SW2 | QSW-P9003AWZZ | J | AD | Switch,Push Type [Tray SW1] |
| SW3 | QSW-P9003AWZZ | J | AD | Switch,Push Type [Tray SW2] |
| SW4 | QSW-P9006AWZZ | J | AF | Switch,Push Type [Disc] |
| SW701 | 92LSWICH1401AT | J | AC | Switch,Key Type [Power On/Stand-by] |
| SW702 | 92LSWICH1401AT | J | AC | Switch,Key Type [Clock/Timer] |
| SW703 | 92LSWICH1401AT | J | AC | Switch,Key Type [Tuning Up] |
| SW704 | 92LSWICH1401AT | J | AC | Switch,Key Type [Tuning Down] |
| SW705 | 92LSWICH1401AT | J | AC | Switch,Key Type [Fast Rewind/Preset Down] |
| SW706 | 92LSWICH1401AT | J | AC | Switch,Key Type [Equalizer] |
| SW707 | 92LSWICH1401AT | J | AC | Switch,Key Type [Fast Forward/Preset Up] |
| SW712 | 92LSWICH1401AT | J | AC | Switch,Key Type [Tuner (Band)] |
| SW713 | 92LSWICH1401AT | J | AC | Switch,Key Type [CD] |
| SW714 | 92LSWICH1401AT | J | AC | Switch,Key Type [Tape] |
| SW715 | 92LSWICH1401AT | J | AC | Switch,Key Type [Game/Video] |
| SW716 | 92LSWICH1401AT | J | AC | Switch,Key Type [X-Bass/Demo] |
| SW717 | 92LSWICH1401AT | J | AC | Switch,Key Type [Left] |
| SW718 | 92LSWICH1401AT | J | AC | Switch,Key Type [Up] |
| SW719 | 92LSWICH1401AT | J | AC | Switch,Key Type [Character] |
| SW720 | 92LSWICH1401AT | J | AC | Switch,Key Type [Right] |
| SW721 | 92LSWICH1401AT | J | AC | Switch,Key Type [Enter] |
| SW722 | 92LSWICH1401AT | J | AC | Switch,Key Type [Down] |
| SW723 | 92LSWICH1401AT | J | AC | Switch,Key Type [MP3 Navigation] |
| SW725 | 92LSWICH1401AT | J | AC | Switch,Key Type [Play/Repeat] |
| SW726 | 92LSWICH1401AT | J | AC | Switch,Key Type [Stop] |
| SW727 | 92LSWICH1401AT | J | AC | Switch,Key Type [Rec/Pause] |
| SW728 | 92LSWICH1401AT | J | AC | Switch,Key Type [Memory/Set] |
| SW729 | 92LSWICH1401AT | J | AC | Switch,Key Type [Open/Close] |
| SW730 | 92LSWICH1401AT | J | AC | Switch,Key Type [Direct Play] |
| SW731 | 92LSWICH1401AT | J | AC | Switch,Key Type [Disc2] |
| SW732 | 92LSWICH1401AT | J | AC | Switch,Key Type [Disc4] |
| SW733 | 92LSWICH1401AT | J | AC | Switch,Key Type [Disc5] |
| SW734 | 92LSWICH1401AT | J | AC | Switch,Key Type [Disc3] |

| NO. | PARTS CODE | ★ | PRICE RANK | DESCRIPTION |
|--------|----------------|---|---------------|-------------------------|
| SW735 | 92LSWICH1401AT | J | AC | Switch,Key Type [Disc1] |
| WTM705 | QCNCW019FAWZZ | J | AB | Socket,6Pin |
| WTM901 | QCNCW019EAWZZ | J | AB | Socket,5Pin |

CD MECHANISM PARTS

| | | | | |
|--------|----------------|---|----|---------------------------------------|
| 301 | NGERH0011AWZZ | J | AC | Gear,Middle |
| 302 | NGERH0012AWZZ | J | AC | Gear,Drive |
| 304 | NSFTM0020AWFW | J | AD | Shaft,Guide |
| 305 | 92LMCUSN1524A | J | AD | Cushion |
| △ 306 | 92LHPC1LFASY | J | BB | Pickup Unit Ass'y |
| 306- 1 | — | — | — | Pickup Unit (Not Replacement Item) |
| 306- 2 | NGERR0043AFZZ | J | AC | Gear,Rack |
| 306- 3 | MSPRC0961AFZZ | J | AA | Spring,Rack |
| 307 | PCUSG0001AWSA | J | AD | Cushion |
| 308 | PCUSG0004AWSA | J | AD | Cushion |
| 701 | XBSSD26P06000 | J | AA | Screw,ø2.6×6mm |
| 703 | XBSSD20P03000 | J | AA | Screw,ø2×3mm |
| 704 | LX-WZ1070AFZZ | J | AA | Washer,ø1.5×ø3.8×0.25mm |
| NM1 | 92LMTR5515CASY | J | AS | Motor with Chassis [Spindle] |
| NM2 | 92LMTR1854BASY | J | AP | Motor with Gear [Sled] |
| NSW1 | QSW-F9001AW01 | J | AD | Switch,Push Type [Pickup In] |

CHANGER MECHANISM PARTS

| | | | | |
|--------|---------------|---|----|------------------------------|
| 101 | GCOVA1513AWZZ | J | AF | Disc Tray |
| 102 | GCOVA1514AWZZ | J | AF | Guide Tray |
| 103 | LANGG0008AWZZ | J | AD | Outer Tray Guide |
| 104 | LANGG0009AWZZ | J | AC | Inner Tray Guide |
| 105 | LCHSM0194AWZZ | J | AP | Main Base |
| 106 | LHLDZ9017AWZZ | J | AF | CD Mechanism Holder |
| 107 | LPLTP0014AWZZ | J | AK | Top Plate |
| 108 | LPLTP0015AWZZ | J | AG | Gear Plate |
| 109 | MHOLD5529ASY | J | AP | Up/Down Holder Ass'y |
| 109- 1 | LHLDM9001AWZZ | J | AD | Stabilizer |
| 109- 2 | LHLDZ9019AWM1 | J | AK | Up/Down Holder Ass'y |
| 109- 3 | LPLTM0017AWZZ | J | AB | Stabilizer Plate |
| 109- 4 | LPLTMA001AWFW | J | AC | Plate |
| 109- 5 | PMAGF0003AWZZ | J | AF | Magnet |
| 110 | MLEVP0129AWZZ | J | AC | Tray Lock Lever |
| 111 | MLEVP0130AWZZ | J | AG | Gear Up/Down Board |
| 112 | MLEVP0131AWZZ | J | AD | Mechanism Up/Down Board (L) |
| 113 | MLEVP0132AWZZ | J | AD | Mechanism Up/Down Board (R) |
| 114 | MLEVP0133AWZZ | J | AC | Mechanism Clamp Board |
| 115 | MLEVP0134AWZZ | J | AD | L/R Joint Lever |
| 116 | MLEVP0135AWZZ | J | AC | Tray Set Lever |
| 117 | MLEVP0136AWZZ | J | AC | Mechanism Clamp Switch Lever |
| 118 | MLEVP0137AWZZ | J | AC | Mechanism Clamp Switch Arm |
| 119 | MLEVP0138AWZZ | J | AB | Inner GR Up/Down Lever |
| 120 | MLEVP0139AWZZ | J | AC | Outer GR Up/Down Lever |
| 121 | MSPRC0044AWFJ | J | AB | Shift Spring |
| 122 | MSPRD0191AWFJ | J | AC | Disc Stop Spring |
| 123 | MSPRD0192AWFJ | J | AB | Balance Spring |
| 124 | NGERH0176AWZZ | J | AF | Tray Big Gear |
| 125 | NGERH0177AWZZ | J | AC | Tray Front Gear A |
| 126 | NGERH0178AWZZ | J | AC | Tray Front Gear B |
| 127 | NGERH0179AWZZ | J | AC | Tray Rear Gear A |
| 128 | NGERH0180AWZZ | J | AB | Tray Rear Gear B |
| 129 | NGERH0181AWZZ | J | AC | Mechanism Clamp Gear A |
| 130 | NGERH0182AWZZ | J | AC | Mechanism Clamp Joint Gear |
| 131 | NGERH0183AWZZ | J | AC | Mechanism Clamp Board Gear |
| 132 | NGERH0184AWZZ | J | AC | Tray Rear Joint Gear A |
| 133 | NGERH0185AWZZ | J | AC | Tray Rear Joint Gear B |
| 134 | NGERH0186AWZZ | J | AC | Tray Rear Joint Gear C |
| 135 | NGERH0187AWZZ | J | AB | Tray Rear Drive Gear |
| 136 | NGERH0188AWZZ | J | AC | Tray Drive Gear |
| 137 | NGERH0189AWZZ | J | AB | Tray Front Drive Gear |
| 138 | NGERH0190AWZZ | J | AC | Tray Front Joint Gear |
| 139 | NGERH0191AWZZ | J | AE | Mode Big Gear |
| 140 | NGERH0192AWZZ | J | AC | G-Up/Down Gear A |
| 141 | NGERH0193AWZZ | J | AC | G-Up/Down Gear B |
| 142 | NGERH0194AWZZ | J | AB | Mechanism Up/Down Gear A |
| 143 | NGERH0195AWZZ | J | AC | Mechanism Up/Down Gear B |
| 144 | NGERH0196AWZZ | J | AC | Mechanism Clamp Switch Gear |
| 145 | NGERH0198AWZZ | J | AB | Reduction Gear A |
| 146 | NGERH0199AWZZ | J | AB | Reduction Gear B |
| 147 | NGERH0200AWZZ | J | AB | Reduction Gear C |
| 148 | NGERH0201AWZZ | J | AB | Reduction Gear D |
| 149 | NGERH0202AWZZ | J | AB | Up/Down Reduction Gear E |
| 150 | NGERH0203AWZZ | J | AB | Up/Down Reduction Gear F |

| NO. | PART CODE | ★ | PRICE RANK | DESCRIPTION |
|-----|----------------|---|---------------|-----------------------------|
| 151 | NGERH0204AWZZ | J | AB | Tray Reduction Gear E |
| 152 | NSFTT0084AWFD | J | AD | Shaft,Main Base |
| 801 | LX-BZA006AWFD | J | AB | Screw,Special |
| 803 | XEBSD20P10000 | J | AA | Screw,ø2×10mm |
| 804 | XEBSD30P10000 | J | AA | Screw,ø3×10mm |
| M1 | 92LMTR5529AASY | J | AD | Motor with Gear [Tray] |
| M2 | 92LMTR5529AASY | J | AD | Motor with Gear [Main Cam] |
| SW1 | QSW-P9003AWZZ | J | AD | Switch,Push Type [CLAMP] |
| SW2 | QSW-P9003AWZZ | J | AD | Switch,Push Type [TRAY SW1] |
| SW3 | QSW-P9003AWZZ | J | AD | Switch,Push Type [TRAY SW2] |
| SW4 | QSW-P9006AWZZ | J | AF | Switch,Push Type [DISC] |

CABINET PARTS

| | | | | |
|---------------|---------------|---|----|--|
| 201 | CCABA5534AW01 | J | BE | Front Panel Ass'y [CD-MPS99] |
| 201 | CCABA5535AW01 | J | BE | Front Panel Ass'y [CD-MPS900] |
| 201- 1 | — | — | — | Front Panel (Not Replacement Item) |
| 201- 2 | GCOVAA026AWSA | J | AG | Cover,Cassette [Tape 1] [CD-MPS99] |
| 201- 2 | GCOVA1521AWSA | J | AK | Cover,Cassette [Tape 1] [CD-MPS900] |
| 201- 3 | GCOVAA027AWSA | J | AG | Cover,Cassette [Tape 2] [CD-MPS99] |
| 201- 3 | GCOVA1522AWSA | J | AK | Cover,Cassette [Tape 2] [CD-MPS900] |
| 201- 4 | GDORF0127AWSA | J | AE | Holder,Cassette [Tape 1] |
| 201- 5 | GDORF0128AWSA | J | AE | Holder,Cassette [Tape 2] |
| 201- 6 | HDECQ1108AWSA | J | AE | Panel,Cassette [Tape 1] |
| 201- 7 | HDECQ1109AWSA | J | AE | Panel,Cassette [Tape 2] |
| 201- 8 | JKNBZA022AWSA | J | AF | Button,Disc Number [CD-MPS99] |
| 201- 8 | JKNBZ0982AWSA | J | AE | Button,Disc Number [CD-MPS900] |
| 201- 9 | MLIF-A001AWZZ | J | AD | Damper |
| 201-10 | JKNBZA023AWSA | J | AM | Button,Operation A [CD-MPS99] |
| 201-10 | JKNBZA023AWSB | J | AM | Button,Operation A [CD-MPS900] |
| 201-11 | JKNBZA024AWSA | J | AM | Button,Operation B [CD-MPS99] |
| 201-11 | JKNBZA024AWSB | J | AM | Button,Operation B [CD-MPS900] |
| 201-12 | JKNBZ0985AWSA | J | AE | Button,Function |
| 201-13 | JKNBZA026AWSA | J | AF | Button,Memory [CD-MPS99] |
| 201-13 | JKNBZ0986AWSA | J | AE | Button,Memory [CD-MPS900] |
| 201-14 | JKNBZA027AWSA | J | AF | Button,Tuning [CD-MPS99] |
| 201-14 | JKNBZ0987AWSA | J | AE | Button,Tuning [CD-MPS900] |
| 201-15 | JKNBZA030AWSA | J | AG | Button,Power [CD-MPS99] |
| 201-15 | JKNBZ0991AWSA | J | AF | Button,Power [CD-MPS900] |
| 201-16 | GCOVA1533AWSA | J | AC | Cover,Timer |
| 201-17 | HBDGB1007AWSA | J | AD | Badge,SHARP |
| 201-18 | MSPRDA002AWFJ | J | AB | Spring,Cassette [Tape 1] |
| 201-19 | MSPRDA003AWFJ | J | AB | Spring,Cassette [Tape 2] |
| 201-20 | HDECQA039AWSA | J | AH | Volume Knob Ring,A [CD-MPS900] |
| 201-20 | HDECQ1105AWSA | J | AG | Volume Knob Ring,A [CD-MPS99] |
| 201-21 | HDECQ1106AWSA | J | AF | Volume Knob Ring,B |
| 201-22 | HDECQA008AWSA | J | AH | Decoration Plate,Amp. [CD-MPS99] |
| 201-22 | HDECQ1116AWSA | J | AH | Decoration Plate,Amp. [CD-MPS900] |
| 201-23 | MLOKC0014AWZZ | J | AC | Lock,Cassette [Tape 1] |
| 201-24 | MLOKC0015AWZZ | J | AC | Lock,Cassette [Tape 2] |
| 201-25 | MSPRD0196AWFJ | J | AB | Spring,Cassette Lock [Tape 1] |
| 201-26 | MSPRD0197AWFJ | J | AC | Spring,Cassette Lock [Tape 2] |
| 201-27 | JKNBZ0988AWSA | J | AH | Button,MP3 Navigation,A |
| 201-28 | JKNBZ0989AWSA | J | AE | Button,MP3 Navigation,B |
| 201-29 | QCNWN1966AWZZ | J | AD | Lug Wire |
| 202 | GCAB-A006AWSA | J | AY | Cabinet,Top/Side [CD-MPS99] |
| 202 | GCAB-3101AWSA | J | AY | Cabinet,Top/Side [CD-MPS900] |
| 203 | PCUSG0022AWZZ | J | AB | Cushion,Leg |
| 204 | GITARA007AWSA | J | AL | Rear Panel,B [CD-MPS99] |
| 204 | GITARA019AWSA | J | AL | Rear Panel,B [CD-MPS900] |
| 205 | GCOVA1520AWSA | J | AG | Cover,CD Tray |
| 206 | LCHSZ0025AWZZ | J | AM | Chassis,Changer |
| 207 | PSLDM009AWFW | J | AG | Shield,Dust Cover |
| 208 | 92LNBAND1318A | J | AA | Nylon Band,80mm |
| 209 | KMECBA001AWZZ | J | BC | Tape Mechanism Ass'y |
| 209- 1 | 92PF513-905 | J | — | Head Plate Block [Tape 2] |
| 209- 2 | 92PF525-357 | J | — | Motor with Pulley [Tape] |
| 209- 3(PWB-D) | — | — | — | Tape Mechanism PWB Ass'y |

| | | | | |
|--------|---------------|---|----|------------------------------|
| 209- 4 | 92PF522-063 | J | AZ | Clutc Ass'y Block [Tape 2] |
| 209- 5 | 92PF20D-12 | J | — | Belt,Main [Tape 2] |
| 209- 6 | 92PF514-131 | J | AL | Pinch Roller |
| 209- 7 | 92PFF19S-52 | J | AL | Belt,FF/REW [Tape 1] |
| 209- 8 | 92PFF20B-13 | J | — | Belt,Main [Tape 1] |
| 209- 9 | 92PF522-061 | J | AZ | Clutc Ass'y Block [Tape 1] |
| 209-10 | 92PFF19S-31 | J | — | Belt,FF/REW [Tape 2] |
| 209-11 | 92PF513-906 | J | AG | Head Plate Block [Tape 1] |
| 210 | HDECQ1110AWSA | J | AF | Panel,Edge Light |
| 212 | QCNWN1860AWZZ | J | AC | Lug Wire |
| 213 | JKNBK0103AWSA | J | AD | Knob,Volume |
| 214 | HDECQ1104AWSA | J | AL | Cover,Volume Knob |
| 215 | PSHEPA008AWZZ | J | AE | Sheet,Edge Light |
| 216 | 92LCSPR1431C | J | AA | Spring,Ring |
| 217 | LCHSM0201AWFW | J | AR | Chassis,Main |
| 218 | GITAR1273AWSA | J | AP | Rear Panel,A |
| 219 | LBND-1011AWZZ | J | AA | Nylon Band |
| △ 220 | QACCD0022AWZZ | J | AM | AC Power Supply Cord |
| 221 | LBSHC0005AWZZ | J | AD | Bushing,AC Power Supply Cord |
| 222 | NFANP0001AWZZ | J | AD | Rotary Fan |
| 223 | LANGK0437AWFW | J | AE | Bracket,Fan Support A |
| △ 224 | QFSHD0001AWZZ | J | AB | Holder,Fuse |
| 225 | PRDAR0320AWFW | J | AV | Heat Sink |
| 226 | LHLDZ9024AWZZ | J | AD | Holder,Edge Light |
| 227 | LANGT0042AWFW | J | AC | Bracket,PWB Support |
| 228 | PSHEPA010AWZZ | J | AE | Shield Sheet,Main PWB |
| 229 | LHLDZA004AWZZ | J | AC | Holder,Rib Support |
| 230 | LANGK0435AWFW | J | AF | Bracket,Heat Sink Support |
| 231 | PCOVQ7004AWFW | J | AK | Cover,Fan |
| 601 | XJBSD30P10000 | J | AA | Screw,ø3×10mm |
| 602 | XEBSD30P10000 | J | AA | Screw,ø3×10mm |
| 603 | LX-EZ0005AWFD | J | AA | Screw,ø2.6×10mm |
| 604 | XEBSD26P10000 | J | AA | Screw,ø2.6×10mm |
| 605 | XESSD30P10000 | J | AA | Screw,ø3×10mm |
| 606 | XJSSD30P08000 | J | AA | Screw,ø3×8mm |
| 607 | LX-EZ0010AWFD | J | AA | Screw,Special |
| 608 | XHBSD40P08000 | J | AA | Screw,ø4×8mm |
| 609 | XBBSD20P04000 | J | AA | Screw,ø2×4mm |
| 610 | LX-JZ0010AFFD | J | AA | Screw,ø3×10mm |
| 611 | LX-LZA002AWZZ | J | AD | Push Rivet |
| 612 | LX-LZ0002AW00 | J | AC | Snap Rivet |
| 613 | LX-JZ0037AWFD | J | AB | Screw,ø3×18mm |
| 614 | LX-JZ0044AWFF | J | AB | Screw,ø3×10mm |
| 615 | XWHSD32-10080 | J | AA | Washer,ø3.2×ø8×1mm |
| 616 | XHBSD30P06000 | J | AA | Screw,ø3×6mm |
| 617 | LX-JZ0010AWFD | J | AB | Screw,ø3×10mm |

ACCESSORIES

| | | | | |
|--|---------------|---|----|-------------------------|
| | QANTL0005AWZZ | J | AG | AM Loop Antenna |
| | TINSEA012AWZZ | J | AD | Operation Manual |
| | TINSZA010AWZZ | J | AF | Quick Guide |
| | TLABZA028AWZZ | J | AF | Label,Feature,Speaker |
| | TLABZA092AWZZ | J | AA | Energy Star Label (Set) |
| | 92LFANT1746A | J | AD | FM Antenna |
| | RRMCG0395AWSA | J | AU | Remote Control |
| | GFTAT1017AWSA | J | AG | Lid,Remote Control |

P.W.B. ASSEMBLY (Not Replacement Item)

| | | | | |
|--------------|----------------|---|----|---|
| PWB-A1~3 | 92LPWB5534MANS | J | — | Main/Display/Spacer (Combined Ass'y) |
| △ PWB-B1,2 | 92LPWB5534PWRS | J | — | Power/Game Input (Combined Ass'y) |
| PWB-C | 92LPWB5612CDUS | J | — | CD Servo |
| PWB-D(209-3) | — | — | — | Tape Mechanism |
| PWB-E | QPWBF1055AWZZ | J | AE | 5-Changer Motor (PWB Only) |
| PWB-F | QPWBF0027AWZZ | J | AD | CD Motor (PWB Only) |

OTHER SERVICE PART

| | | | |
|---------------|---|----|------------------------|
| UDSKA0004AFZZ | J | AZ | CD Pickup Lens Cleaner |
|---------------|---|----|------------------------|

CD-MPS900/CD-MPS99

| NO. | PART CODE | ★ PRICE RANK | DESCRIPTION |
|-----|-----------|--------------|-------------|
|-----|-----------|--------------|-------------|

CP-MPS900/CP-MPS99

SPEAKER BOX PARTS

| | | | |
|--------|---------------|------|--|
| 901 | GBOXLA009AWSA | J BF | Speaker Box Ass'y,Left [CP-MPS900] |
| 901 | GBOXLA010AWSA | J BE | Speaker Box Ass'y,Left [CP-MPS99] |
| 902 | GBOXRA009AWSA | J BF | Speaker Box Ass'y,Right [CP-MPS900] |
| 902 | GBOXRA010AWSA | J BE | Speaker Box Ass'y,Right [CP-MPS99] |
| 903 | CPNLSA005AW01 | J BD | Front Panel Ass'y,Left [CP-MPS900] |
| 903 | CPNLSA005AW02 | J BD | Front Panel Ass'y,Left [CP-MPS99] |
| 904 | CPNLSA006AW01 | J BD | Front Panel Ass'y,Right [CP-MPS900] |
| 904 | CPNLSA006AW02 | J BD | Front Panel Ass'y,Right [CP-MPS99] |
| 905 | HPNLSA007AWSA | J AX | Side Panel,Left [CP-MPS900] |
| 905 | HPNLSA007AWSB | J AX | Side Panel,Left [CP-MPS99] |
| 906 | HPNLSA008AWSA | J AX | Side Panel,Right [CP-MPS900] |
| 906 | HPNLSA008AWSB | J AX | Side Panel,Right [CP-MPS99] |
| 907 | TSPC-A038AWZZ | J AC | Label,Specifications [CP-MPS900] |
| 907 | TSPC-A039AWZZ | J AC | Label,Specifications [CP-MPS99] |
| 908 | PFLT-0046AWZZ | J AC | Felt |
| 909 | QCNWNA001AWZZ | J AY | Speaker Cord Ass'y (with Capacitor C1,2) |
| 910 | XJBSD40P16000 | J AB | Screw,ø4×16mm |
| 911 | XJBSD30P12000 | J AA | Screw,ø3×12mm |
| 912 | XMPSF40P35000 | J AC | Screw,ø4×35mm |
| 913 | XMBSF40P16000 | J AC | Screw,ø4×16mm |
| 914 | PCUSG0147AWZZ | J AC | Leg Cushion |
| 915 | QCNWHA001AWZZ | J AK | Speaker Cord |
| SP1,2 | RSP-ZA006AWZZ | J BC | Woofer |
| SP3,4 | RSP-ZA007AWZZ | J AS | Tweeter |
| SP5,6 | RSP-ZA008AWZZ | J AS | Passive Radiator |
| SP7~10 | LHLDZA006AWM1 | J AS | Super Tweeter Ass'y |



CD-MPS900/CD-MPS99



CD-MPS900/CD-MPS99

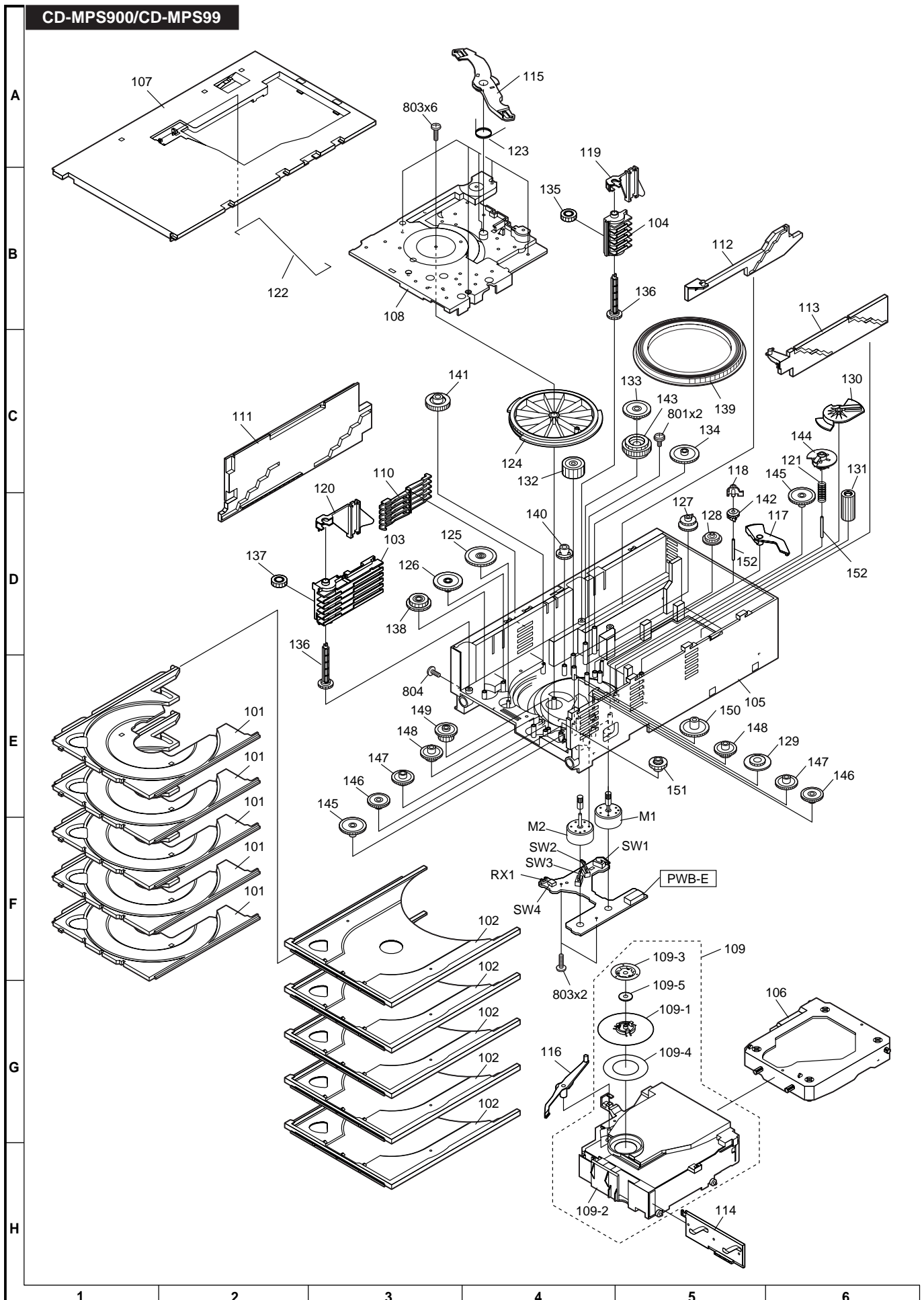


Figure 10 CHANGER MECHANISM EXPLODED VIEW

CP-MPS900/CP-MPS99

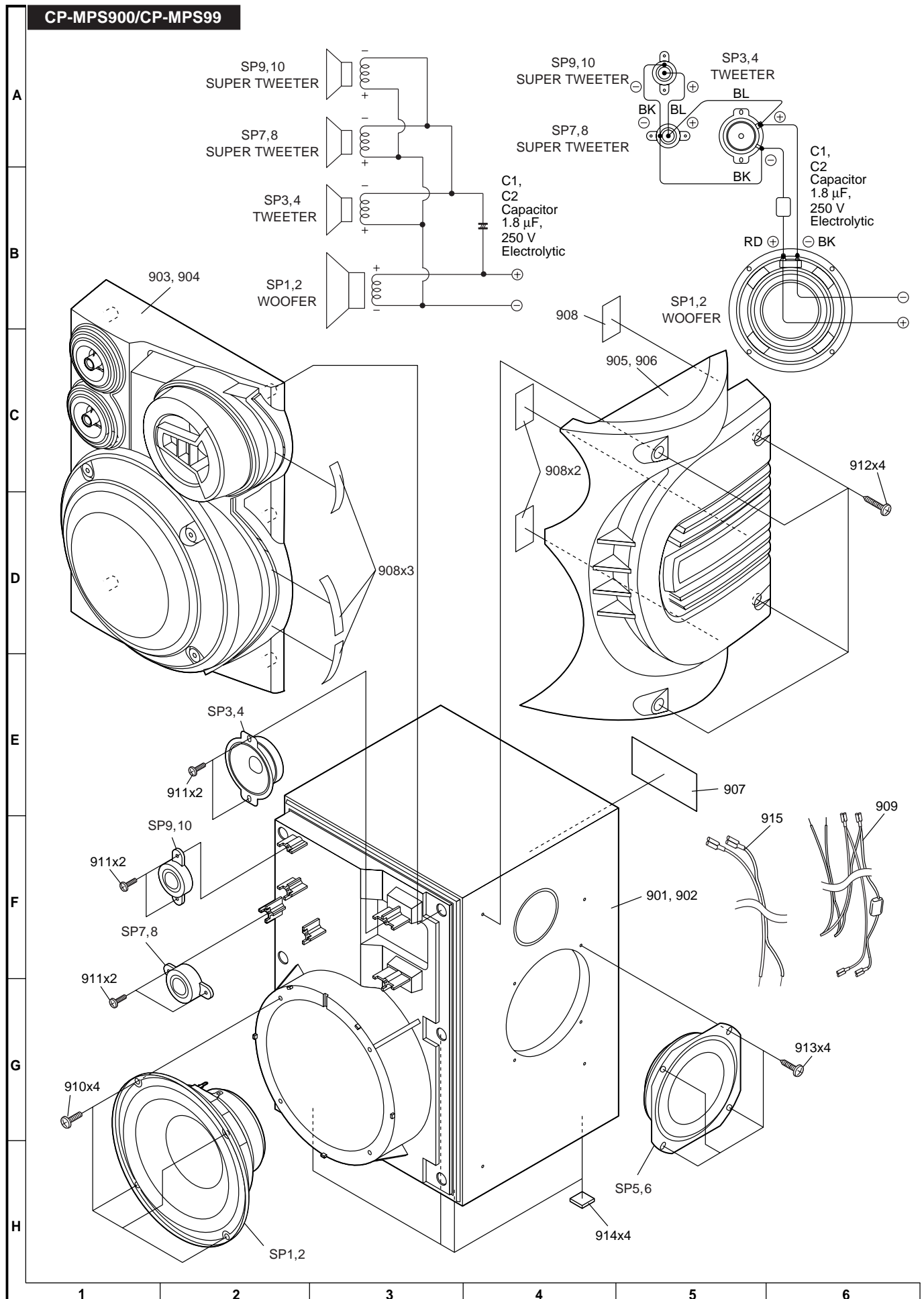
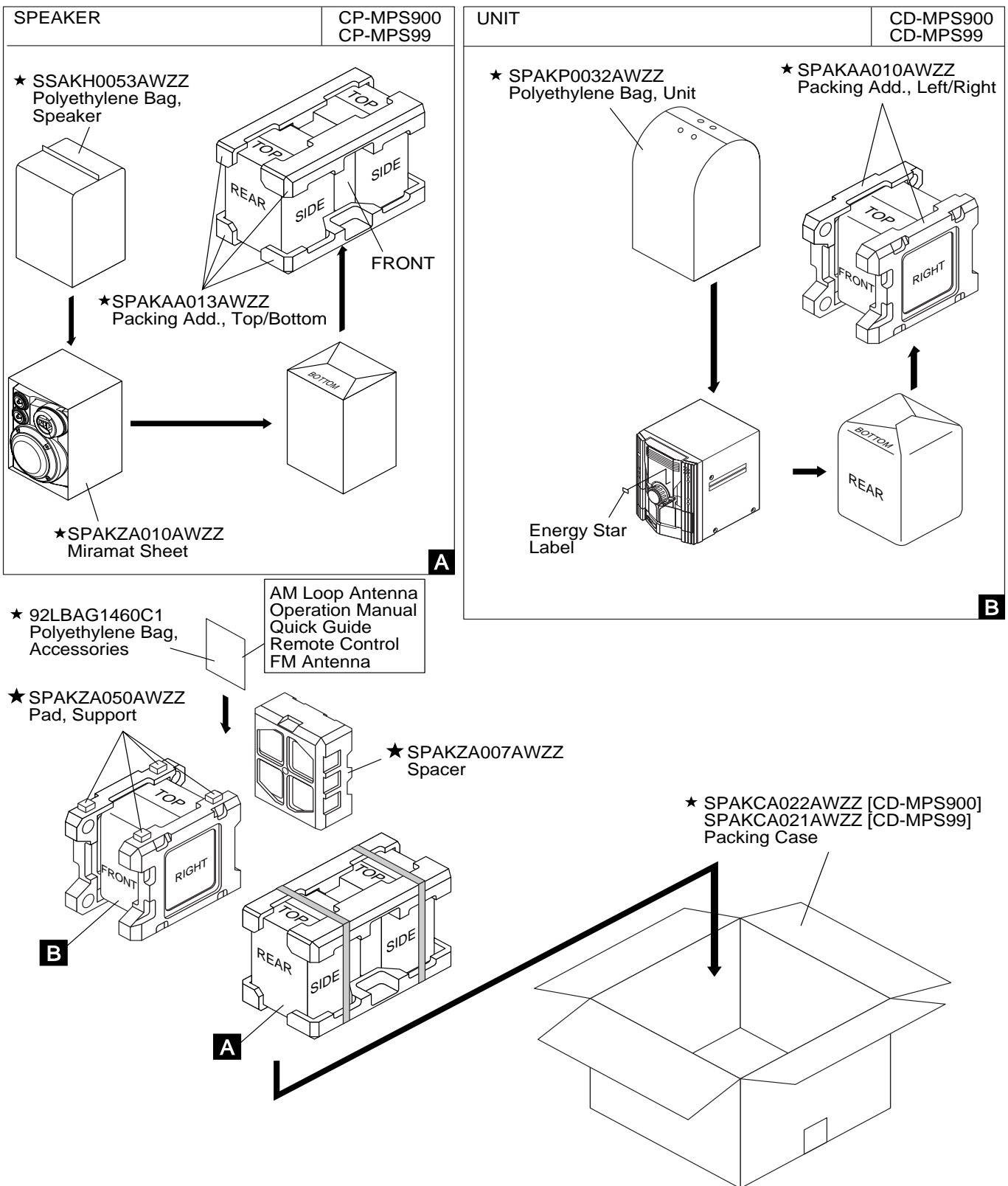


Figure 11 SPEAKER EXPLODED VIEW

PACKING OF THE SET

| Setting position of switches and knobs | |
|--|------|
| Tape Mechanism | STOP |



★ Not Replacement Item

CD-MPS900/CD-MPS99

— MEMO —

— MEMO —



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